



SAMSUNG

SPLIT-TYPE AIR CONDITIONER

Basic : MH026FNEA/UH026EAV1
MH052FNEA/UH052EAV1

Model : NS026NHXEA/UH026EAV1
NS035NHXEA/UH035EAV1
NS052NHXEA/UH052EAV1
NS070NHXEA/UH070EAV2
NS026NDXEA/ RC026DHXEA
NS035NDXEA/RC035DHXEA
NS052NDXEA/ RC052DHXEA
NS071NDXEA/RC071DHXEA

Model Code : NS026NHXEA/UH026EAV1
NS035NHXEA/UH035EAV1
NS052NHXEA/UH052EAV1
NS070NHXEA/UH070EAV2
NS026NDXEA/ RC026DHXEA
NS035NDXEA/RC035DHXEA
NS052NDXEA/ RC052DHXEA
NS071NDXEA/RC071DHXEA

SERVICE ***Manual***

AIR CONDITIONER



NS026NHXEA/NS035NHXEA/ NS026NDXEA/ NS035NDXEA



NS052NHXEA/ NS052NDXEA/NS070NHXEA/NS071NDXEA



UH026EAV1/UH035EAV1



UH070EAV2/RC071DHXEA



UH052EAV1



RC026/035/052DHXEA

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Refer to the service manual in the GSPN(see the rear cover) for the more information.

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1. Precautions

1-1 Precautions for the Service

- **Use the standard parts when replacing the electric parts.**
 - Confirm the model name, rated voltage, rated current of the electric parts.
- **Repair the disconnection of HARNESS securely when repairing the break down.**
 - If there is any connection error, it causes an abnormal noise and incorrect operation.
- **In case that you assemble or disassemble the products with laying it on the side, do work on the work cloth.**
 - If not, the exterior of products can be scratched.
- **Remove dust and foreign materials from harness, connection part, and inspection part thoroughly when repairing the break down.**
 - It protects the danger of fire such as tracking and short.
- **Tighten tightly the service valve of outdoor unit and the cap of charging valve with a monkey spanner.**
- **Check the assembly status of parts after repairing the break down.**
 - It should be same as the status before repairing.

1-2 Precautions for the Static Electricity and PL

- **As the PCB power terminal has a weakness for the static electricity, pay attention to it during the repair and measurement.**
 - Work with insulation gloves during the repair and measurement of PCB.
- **Check the distance between the product and the other electronic appliances such as TV, video, and audio.**
It should be over 2m.
 - If not, it causes a bad picture quality or a noise.
- **Repairing the products by consumer should be strictly prohibited.**
 - There is a danger of electric shock or fire due to incorrect disassembly.

1-3 Precautions for the Safety

- **Do not pull any electric wires and do not touch an auxiliary power switch with a wet hand.**
 - There is a danger of electric shock or fire.
- **In case any wire or power plug has been damaged, replace it to eliminate any possible danger.**
- **Do not bend the power cord by force and do not put any heavy object on the power cord.**
 - There is a danger of electric shock or fire.
- **Do not use multi socket.**
 - There is a danger of electric shock or fire.
- **Ground the product if necessary.**
 - Be sure to ground the product if there is any danger of electric leakage due to water or moisture.
- **Be sure to turn off the auxiliary power switch or pull out the power plug during replacement or repair of electric parts.**
 - There is a danger of electric shock.
- **In case the product will not be in use for a long time, the battery of remote control should be kept separately.**
 - Leakage of inside fluid can cause break down of remote control.

1-4 Disposing of the unit

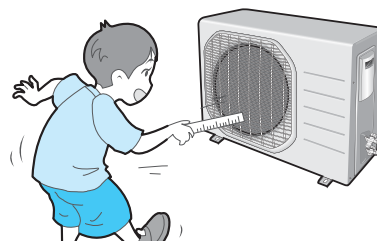
- Before throwing out the air conditioner, remove the batteries from the remote control.
- When you dispose of the air conditioner, consult your dealer. If pipes are removed incorrectly, refrigerant may blow out and cause air pollution. When it contacts with your skin, it can cause skin injury.
- The package of the air conditioner should be recycled or disposed of properly for environmental reasons.

1-5 Others

- Never store or load the air conditioner upside down or sideways to prevent the damage to the compressor.
- Young children or infirm persons should be always supervised when they use the air conditioner.
- Max current is measured according to IEC standard for safety.
- Current is measured according to ISO standard for energy efficiency.

When installing, make sure there is no leakage. When recovering the refrigerant, ground the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high. It may cause explosion and injury.

- Pump Down Procedure (When removing the product)
 - 1) Turn on the air conditioner and select Cool mode to run the compressor for 3 minutes.
 - 2) Release the valve caps on High and Low pressure side.
 - 3) Use L wrench to close the valve on the high pressure side.
 - 4) Approximately 2 minutes after, close the valve on the low pressure side.
 - 5) Stop operation of the air conditioner.
 - 6) Disconnect the pipes.



2. Product Specifications

2-1 The Feature of Product

■ Catechin Filter

Catechin, extracted from the green tea, is contained in the filter and deactivates captured bacteria and unpleasant odors.

■ Silver Nano Evaporator

■ Deodorizing Filter

Activated carbon is incorporated in the filter, efficiently absorbing cigarette smoke, pet odors, and other unpleasant smells, replacing them with clean, refreshing air.

■ Anti-Bacterial Cross Fan

2-2 The Specifications of Product

Model		Indoor Unit		NS026NHXEA	NS035NHXEA
		Outdoor Unit		UH026EAV1	UH035EAV1
common	Capacity(Min/Nor/Max)	Cooling	W	1,200/2,600/3,500	1,200/3,500/3,700
		Heating	W	1,030/3,500/3,800	1,040/4,000/4,400
	Input	Cooling	W	245/650/1,500	245/1,050/1,500
		Heating	W	200/970/1,150	210/1,170/1,400
	Running Current	Cooling	A	1.6/3.4/7.0	1.6/5.1/7.0
		Heating	A	1.3/5.0/5.4	1.3/5.8/6.5
	Running Frequency	Cooling	Hz	20~85	20~90
		Heating	Hz	20~90	20~95
		Cooling(Low/Std/Max)	Hz	20/48/85	20/73/90
		Heating(Low/Std/Max)	Hz	20/71/90	20/81/95
	Max Capacity	Cooling	W	3,500	3,700
		Heating	W	3,800	4,400
	Max Input	Cooling	W	1,500	1,500
		Heating	W	1,150	1,400
	Max Running Current	Cooling	A	7.00	7.00
		Heating	A	5.40	6.50
	Power Supply		Ø,V,Hz	1,220~240,50	1,220~240,50
	EER	Cooling	W/W	4.00(A)	3.33(A)
		Heating	W/W	3.61(A)	3.42(B)
	Refrigerant Control			EEV	EEV
	Refrigerant Charge		g, type	950, R410a	950,R410a
Indoor	extention length (total)		m	20	20
	extention length (elevation)		m	15	15
	standard		m	5	5
	Additional Refrigerant Charge		g/m	0	0
	Operation range		℃	-10~43 -15~24	-10~43 -15~24
	Indoor fan motor	Model		YDK-016S4140-01	YDK-016S4140-01
		Input	W	40	40
		Running Current	A	0.2	0.2
		Capacitor	µF/Vac	1.2uF(SSR)	1.2uF(SSR)
	Indoor Fan	Type		Sirocco Fan	Sirocco Fan
		No. Used / Diameter	EA/mm	92	92
	Indoor Fan RPM	Cooling(H/M/L)	rpm	1140 / 1035 / 930	1210 / 1105 / 1000
		Heating(H/M/L)	rpm	1210 / 1105 / 1000	1280 / 1175 / 1070
	Temperature Controller			Thermistor	Thermistor
	Indoor Coil	Tube Size (OD)	mm	7.0	7.0
		Fin pitch		1.3	1.3
		No. of Rows & Column		2*10*640+2*4*620	2*10*640+2*4*620
Set Dimensions (W*H*D)	Net		mm	825x285x189	825x285x189
		Gross	mm	900x349x252	900x349x252
		Weight (Net/Gross)	kg	9/11	9/11
Sound Level	Pressure Level (Cool/Heat)		dB(A)	43/43	43/43

Model		Indoor Unit		NS026NHXEA	NS035NHXEA
		Outdoor Unit		UH026EAV1	UH035EAV1
Outdoor	Compressor	Locked Rotor Amp.	A	-	-
		Type		Single BLDC	Single BLDC
		Model		G4C090LUDER	G4C090LUDER
		Capacity	Btu/hr	9,300	9,300
		Motor Type		BLDC	BLDC
		Motor Input	W	861	861
		Oil Type		FREOL α 68ES-T	FREOL α 68ES-T
		Oil Charge	g	320	320
	Outdoor Coil	Tube Size (OD)	mm	Φ8	Φ8
		Fin pitch		G-Fin, FP1.3	G-Fin, FP1.3
		No. of Rows & Column		1R24C	1R24C
	Outdoor fan motor	Output	w	25	25
		Model		SIC-52FV-F726-2	SIC-52FV-F726-2
		No. of Poles		8	8
		Running Current	A	0.1	0.1
	Outdoor Fan	Type		Propeller	Propeller
		No. Used / Diameter	EA/mm	1/401	1/401
		Discharge	Top / Side	Side	Side
		Speed	rpm	800 / 700 / 500(C) 900 / 700 / 600(H)	850 / 750 / 500(C) 900 / 750 / 600(H)
	Sound Level	Pressure Level (Cool/Heat)	dB(A)	51/51	53/53
	Set Dimensions (W*H*D)	Net	mm	790X548X285	790X548X285
		Gross	mm	938X610X382	938X610X382
		Weight (Net/Gross)	kg	35.5/38	35.5/38
Other	Power supply Cable		No.* mm2	1/2.5	1/2.5
	Communication Cable		No.* mm2	1/1.25	1/1.25
	Connecting Tube (Ø Socket Flare)	Liquid Side	inch(mm)	1/4'(6.35)	1/4'(6.35)
		Gas Side	inch(mm)	3/8'(9.52)	3/8'(9.52)
		Length, std	m	5	5
		Max length/elevation	m	20/15	20/15
	Drain hose	In Diameter	mm	Φ19	Φ19
		Out Diameter	mm	Φ18	Φ18
	Packing Dimension (W*H*D)	Indoor Unit	mm	810X710X295	810X710X295
		Outdoor Unit	mm	938X610X382	938X610X382
	OPTION CODE			027770-13022C 200000-300000	027770-15024E 200000-300000


Model		Indoor Unit		NS052NHXEA	NS070NHXEA
		Outdoor Unit		UH052EAV1	UH070EAV2
common	Capacity(Min/Nor/Max)	Cooling	W	1,900/5,000/6,050	2,400/7,100/7,600
		Heating	W	1,500/6,000/6,250	2,150/8,000/9,950
	Input	Cooling	W	400/1,400/2,200	530/2,350/3,100
		Heating	W	340/1,760/3,150	500/2,750/4,050
	Running Current	Cooling	A	2.6/6.3/9.8	3.2/10.7/14.0
		Heating	A	2.3/8.3/14.0	3.0/12.7/17.5
	Running Frequency	Cooling	Hz	15~65	15~73
		Heating	Hz	15~85	15~85
		Cooling(Low/Std/Max)	Hz	15/48/65	15/59/73
		Heating(Low/Std/Max)	Hz	15/57/85	15/58/85
	Max Capacity	Cooling	W	6,050	7,600
		Heating	W	6,250	9,950
	Max Input	Cooling	W	2,200	3,100
		Heating	W	3,150	4,050
	Max Running Current	Cooling	A	9.80	14.00
		Heating	A	14.00	17.50
	Power Supply		Ø,V,Hz	1,220~240,50	1,220~240,50
	EER	Cooling	W/W	3.57(A)	3.02(B)
		Heating	W/W	3.41(B)	2.91(D)
	Refrigerant Control			EEV	EEV
	Refrigerant Charge		g, type	1450,R410a	1900, R410a
	extention length (total)		m	50	50
	extention length (elevation)		m	30	30
	standard		m	5	5
	Additional Refrigerant Charge		g/m	30	30
	Operation range		℃	-15~43 -20~24	-15~50 -20~24
Indoor	Indoor fan motor	Model		KFD-30SX	KFD-30SX
		Input	W	73	73
		Running Current	A	0.33	0.33
		Capacitor	µF/Vac	2.0uF(SSR)	2.0uF(SSR)
	Indoor Fan	Type		Sirocco Fan	Sirocco Fan
		No. Used / Diameter	EA/mm	92	92
	Indoor Fan RPM	Cooling(H/M/L)	rpm	1245 / 1070 / 930	1280 / 1105 / 930
		Heating(H/M/L)	rpm	1280 / 1105 / 965	1340 / 1140 / 1000
	Temperature Controller			Thermistor	Thermistor
	Indoor Coil	Tube Size (OD)	mm	7.0	7.0
		Fin pitch		1.3	1.3
		No. of Rows & Column		2*10*850+2*6*830	2*10*850+2*6*830
	Set Dimensions (W*H*D)	Net	mm	1065x298x218	1065x298x218
		Gross	mm	1137X377X299	1137X377X299
		Weight (Net/Gross)	kg	13/16	13/16
	Sound Level	Pressure Level (Cool/Heat)	dB(A)	48/48	50/50

Model		Indoor Unit		NS052NHXEA	NS070NHXEA
		Outdoor Unit		UH052EAV1	UH070EAV2
Outdoor	Compressor	Locked Rotor Amp.	A	11.0	13.0
		Type		Twin BLDC	Twin BLDC
		Model		G8T200FUAEW	G8T260FUAEW
		Capacity	Btu/hr	20,000	26,500
		Motor Type		BLDC	BLDC
		Motor Input	W	1852	2454
		Oil Type		POE	POE
		Oil Charge	g	700	700
	Outdoor Coil	Tube Size (OD)	mm	Φ7	Φ7
		Fin pitch		1.3	1.3
		No. of Rows & Column		2R28C	2R36C
	Outdoor fan motor	Output	w	40	65
		Model		SIC-67FV-F135-2/3	DL-95835SSOA-5
		No. of Poles		4	4
		Running Current	A	0.25	0.45
	Outdoor Fan	Type		Propeller	Propeller
		No. Used / Diameter	EA/mm	1/420	1/460
		Discharge	Top / Side	Side	Side
		Speed	rpm	1000 / 850 / 520(C) 1000 / 900 / 600(H)	1000 / 850 / 650(C) 1000 / 780 / 650(H)
	Sound Level	Pressure Level (Cool/Heat)	dB(A)	58/58	58/58
	Set Dimensions (W*H*D)	Net	mm	880x638x310	880x798x310
		Gross	mm	1023x704x413	1038x861x406
		Weight (Net/Gross)	kg	50 / 53	57 / 61
Other	Power supply Cable	-	No.* mm2	2x3.5	2x3.5
	Communication Cable		No.* mm2	4x1.25	4x1.25
	Connecting Tube (Ø Socket Flare)	Liquid Side	inch(mm)	1/4"(6.35)	1/4"(6.35)
		Gas Side	inch(mm)	1/2"(12.7)	5/8"(15.88)
		Length, std	m	5	5
		Max length/elevation	m	50/30	50/30
	Drain hose	In Diameter	mm	Φ19	Φ19
		Out Diameter	mm	Φ18	Φ18
	Packing Dimension (W*H*D)	Indoor Unit	mm	1074x294x726	1390x345x575
		Outdoor Unit	mm	1023x704x413	1038x861x406
	OPTION CODE			026770-19025C 200000-300000	027770-1C026C 200000-300000



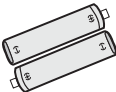


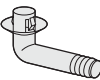






Model		Indoor Unit		NS026NDXEA	NS035NDXEA
		Outdoor Unit		RC026DHXEA	RC035DHXEA
common	Capacity(Min/Nor/Max)	Cooling (Low/Std/Max)	W	1,200/2,600/3,500	1,200/3,500/3,700
		Heating (Low/Std/Max)	W	1,030/3,500/3,800	1,040/4,000/4,400
	Input	Cooling (Low/Std/Max)	W	245/650/1500	245/1050/1500
		Heating (Low/Std/Max)	W	200/970/1150	210/1170/1400
	Running Current	Cooling (Low/Std/Max)	A	1.6/3.4/7.0	1.6/5.1/7.0
		Heating (Low/Std/Max)	A	1.3/5.0/5.4	1.3/5.8/6.5
	Running Frequency	Cooling(Low/Std/Max)	Hz	20/50/75	20/73/88
		Heating(Low/Std/Max)	Hz	20/71/90	20/81/95
	Power Supply		Ø,V,Hz	1,220~240,50	1,220~240,50
	EER	Cooling	W/W	4.00	3.33
		Heating	W/W	3.61	3.42
	Refrigerant Control			EEV	EEV
	Refrigerant Charge		g, type	950, R410a	950, R410a
	extension length (total)		m	20	20
	extension length (elevation)		m	15	15
	standard		m	5	5
Indoor	Indoor fan motor	Model		KSFD-18SX	KSFD-18SX
		Capacitor	µF/Vac	1.2uF	1.2uF
	Indoor Fan	Type		Cross flow	Cross flow
		Diameter	mm	Φ92	Φ92
	Indoor Fan RPM	Cooling(H/M/L)	rpm	1140/1035/930	1210/1105/1000
		Heating(H/M/L)	rpm	1210/1105/1000	1280/1175/1070
	Temperature Controller			Thermistor	Thermistor
	Indoor Coil	Tube Size (OD)	mm	7.0	7.0
		Fin pitch		1.3	1.3
		No. of Rows & Column		Φ7*2R*10S*L640& Φ7*2R*4S*L620	Φ7*2R*10S*L640& Φ7*2R*4S*L620
	Set Dimensions (W*H*D)	Net	mm	825*189*285	825*189*285
		Gross	mm	904*263*353	904*263*353
		Weight (Net/Gross)	kg	9/11	9/11
	Sound Level	Pressure Level (Cool/Heat)	dB(A)	43/43	43/43
	Compressor	Type		Single BLDC	Single BLDC
		Model		G4C090LUDJR	G4C090LUDJR
		Oil Type		320cc, POE	320cc, POE
	Outdoor Coil	Tube Size (OD)	mm	Φ8	Φ8
		Fin pitch		1.3	1.3
		No. of Rows & Column		2R24S	2R24S
	Outdoor Motor	Model		SIC-67FV-F135-8	SIC-67FV-F135-8
	Outdoor Fan	Type		Propeller	Propeller
		No. Used / Diameter	EA/mm	1/460	1/460
		Discharge	Top / Side	Side	Side
		Speed	rpm	900/760/150(C/H)	900/800/150(C/H)
	Sound Level	Pressure Level (Cool/Heat)	dB(A)	51/51	53/53
	Set Dimensions (W*H*D)	Net	mm	790*548*285	790*548*285
		Gross	mm	926*655*382	926*655*382
		Weight (Net/Gross)	kg	33/37	33/37

Model		Indoor Unit		NS052NDXEA	NS071NDXEA
		Outdoor Unit		RC052DHXEA	RC071DHXEA
common	Capacity(Min/Nor/Max)	Cooling (Low/Std/Max)	W	1,900/5,000/6,050	2,200/7,100/8,000
		Heating (Low/Std/Max)	W	1,500/6,000/6,250	1,900/8,000/9,000
	Input	Cooling (Low/Std/Max)	W	400/1560/2200	350/2360/4000
		Heating (Low/Std/Max)	W	340/1760/315	350/2850/4000
	Running Current	Cooling (Low/Std/Max)	A	2.6/7.2/9.8	2.0/10.5/21.0
		Heating (Low/Std/Max)	A	2.3/8.3/14.0	2.0/13.0/21.0
	Running Frequency	Cooling(Low/Std/Max)	Hz	15/67/82	15/77/82
		Heating(Low/Std/Max)	Hz	15/72/100	15/83/105
	Power Supply		Ø,V,Hz	1,220~240,50	1,220~240,50
	EER	Cooling	W/W	3.21	3.01
		Heating	W/W	3.41	2.81
	Refrigerant Control			EEV	EEV
	Refrigerant Charge		g, type	1800, R410a	1800, R410a
	extention length (total)		m	30	50
	extention length (elevation)		m	20	30
	standard		m	5	5
Indoor	Indoor fan motor	Model		KFD-30SX	KFD-30SX
		Input	W	73	73
		Running Current	A	0.33	0.33
		Capacitor	µF/Vac	2.0uF(SSR)	2.0uF(SSR)
	Indoor Fan	Type		Sirocco Fan	Sirocco Fan
		No. Used / Diameter	EA/mm	8Pole, Ø94	8Pole, Ø94
	Indoor Fan RPM	Cooling(H/M/L)	rpm	1245/1070/930	900/820/130
		Heating(H/M/L)	rpm	1280/1105/965	900/790/130
	Temperature Controller			Thermistor	Thermistor
	Indoor Coil	Tube Size (OD)	mm	7.0	7.0
		Fin pitch		1.3	1.3
		No. of Rows & Column		Ø7*2R*10S*L850& Ø7*2R*6S*L830	Ø7*2R*10S*L850& Ø7*2R*6S*L830
	Set Dimensions (W*H*D)	Net	mm	1065x298x218	1065x298x218
		Gross	mm	1137X377X299	1137X377X299
		Weight (Net/Gross)	kg	13/16	13/16
	Sound Level	Pressure Level (Cool/Heat)	dB(A)	48/48	50/50
Outdoor	Compressor	Locked Rotor Amp.	A	13.0	13.0
		Type		Twin BLDC	Twin BLDC
		Model		UG4T150FUDJQ	UG4T200FUAE4
		Capacity	Btu/hr	-	26,500
		Oil Type		650cc, POE	650cc, POE
	Outdoor Coil	Tube Size (OD)	mm	Ø8	Ø7
		Fin pitch		1.3	1.3
		No. of Rows & Column		2R24C	2R36C
	Outdoor Motor	Model		SIC-67FV-F135-8	FMBC531SSK
	Outdoor Fan	Type		Propeller	Propeller
		No. Used / Diameter	EA/mm	1/460	1/460
		Discharge	Top / Side	Side	Side
		Speed	rpm	1000/1000/320(C/H)	900/820/130 1000 / 780 / 650(H)
	Sound Level	Pressure Level (Cool/Heat)	dB(A)	58/58	58/58
	Set Dimensions (W*H*D)	Net	mm	790*548*285	880x798x310
		Gross	mm	926*655*382	1023x891x413
		Weight (Net/Gross)	kg	38.5/42.5	54.5/59



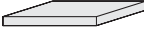







2-3 The Comparative Specifications of Product

Item		NS026NDXEA/RC026DHXEA NS035NDXEA/RC035DHXEA NS052NDXEA/RC052DHXEA NS071NDXEA/RC071DHXEA	NS026NHXEA/UH026EAV1 NS035NHXEA/UH035EAV1 NS052NHXEA/UH052EAV1 NS070NHXEA/UH070EAV2 (Basic)
Design	Indoor Unit	 	 
	Outdoor Unit	  	  
Net Weight	Indoor Unit	9.0kg /13kg	9.0kg/13kg
	Outdoor Unit	33kg/42.5kg/54.5kg	51kg/53kg/58kg
Outer Dimension (WxHxD)	Indoor Unit	825*189*285 mm / 1065*218*298mm	825*189*285 mm / 1065*218*298mm
	Outdoor Unit	790*548*285mm/ 880x798x310mm	790*548*285mm/880*638*310mm/880*798*310mm
Noise	Indoor Unit	43dB↓ / 48dB↓	43dB↓ / 45dB↓ / 50dB↓
	Outdoor Unit	51dB↓ / 53dB↓ / 58dB↓	51dB↓ / 53dB↓ / 58dB↓

2-4 Accessory and Option Specifications



Item	Descriptions	Code-No.	Q'TY	Remark
	Installation Plate	DB97-02851C(**26/35**) DB90-02738A(**52/70**) DB90-02738A(**071**)	1	Indoor Unit
	Remote Control	DB93-06335T(*NHXEA) DB93-11115N(*NDXEA)	1	
	Batteries for Remote Control	DB47-90024A	2	
	Owner's Manual	DB98-31944A(*NHXEA) DB98-32405A(*NDXEA)	1	
	Installation Manual	DB98-31943A(*NHXEA) DB98-32736A(*NDXEA)	1	
	Drain Plug	DB67-00477A	1	Outdoor Unit
	Rubber Leg	DB73-20134A	4	
	Assembly Pipe, ø6.35mm (**26/35/52/70/071**)	DB62-02672D	1	Accessory Box(option)
	3-wire Assembly Cable	-	1	
	5-wire Assembly Cable	-	1	
	Assembly Pipe, ø9.52mm (**26/35**)	DB62-02672E	1	
	Assembly Pipe, ø12.70mm (**52**)	DB62-02672F		

Accessories(cont.)

Item	Descriptions	Code-No.	Q'TY	Remark
	Assembly Pipe, ø15.88mm (**70**)	DB62-02672H	1	Accessory Box(option)
	Vinyl Tape, Width 80mm	DB72-00459A	1	
	PET3 Foam Tube insulation	-	1	
	Pipe Clamp A	-	3	
	Pipe Clamp B	-	3	
	Cable-Tie	DB65-10088C	4	
	Cement Nail	-	6	
	M4x16 Tapping ScrewsO	6002-000215	6	
	Drain Hose, length 2m	DB67-00274A	1	
	Putty 100g	DB98-10568A	1	



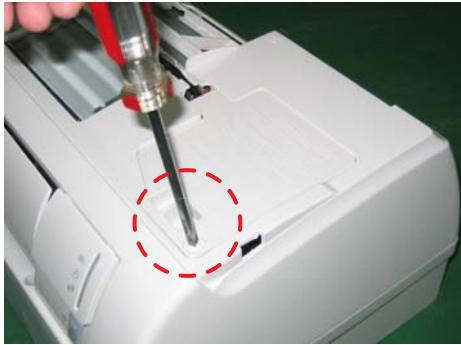

3. Disassembly and Reassembly



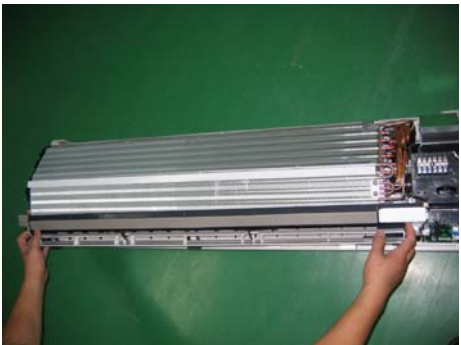
■ Necessary Tools

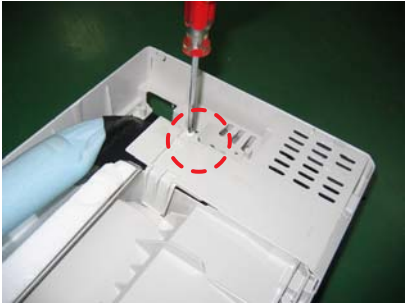
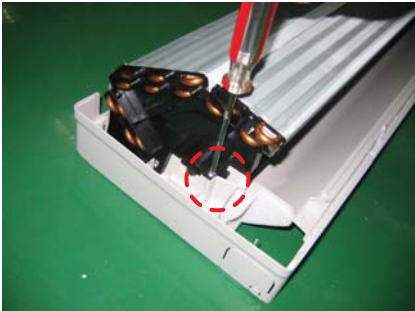

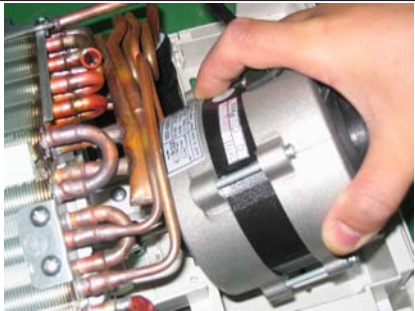
Item	Remark
+SCREW DRIVER	
MONKEY SPANNER	

3-1 Indoor Unit

Stop operation of the air conditioner and remove the power cord before repairing the unit.

No	Parts	Procedure	Remark
1	Front Grille	<p>1) Stop the air conditioner operation and shut off the main power.</p> <p>2) Open the Front Grille by pulling right and left sides of the hook.</p> <p>3) Loosen 1 of the right screw and detach the Terminal Cover.</p> <p>4) Detach the thermistor from the Front Grille.</p> <p>5) Loosen 3 fixing screws of Front Grille.</p>	   


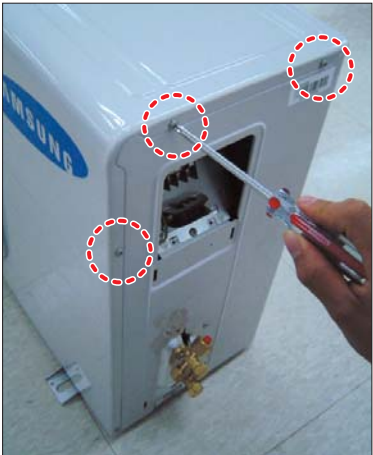


No	Parts	Procedure	Remark
		<p>6) Unlock 3 hooks to fix Panel Front and Tray Drain.</p> <p>7) Unlock 3 hooks to fix Panel Front and Back-Body.</p>	 <p>The top photograph shows hands pulling down on the front of a white panel to release three white plastic hooks. The bottom photograph shows a hand pulling down on the back of the same panel to release three similar hooks. The background is a green work surface.</p>
2	Control-In (Main PCB)	<p>1) Take all the connector of PCB upper side out. (Inclusion Power Cord)</p> <p>2) Detach the outdoor unit connection wire from the Terminal Block.</p> <p>3) Loosen 4 fixing screws of Ass'y Control-In.</p>	 <p>The photograph shows the internal control board of the unit. A person's hand is using a screwdriver to remove a screw from the terminal block. Various colored wires (red, black, yellow, green) are visible connected to the board. The background is a green work surface.</p>
3	Tray Drain	<p>1) Pull Tray Drain out from the Back Body.</p>	 <p>The photograph shows a long, silver-colored metal tray drain being pulled out from the back of the unit. A person's hands are visible at both ends of the tray, supporting it as it is removed. The background is a green work surface.</p>

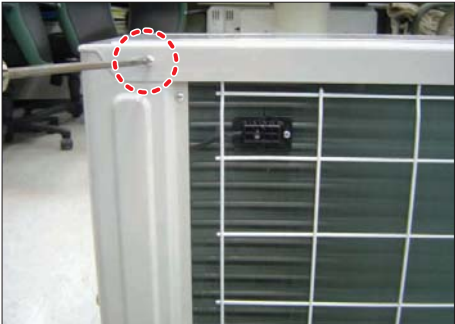
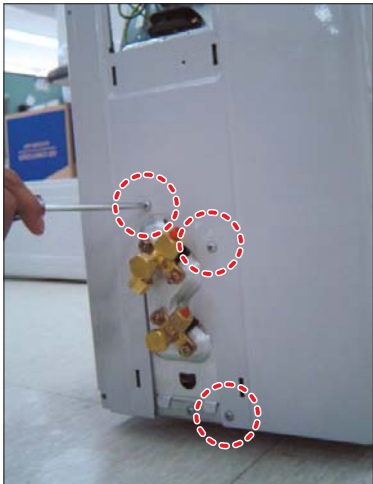

No	Parts	Procedure	Remark
4	Heat Exchanger	1) Loosen 2 fixing earth screws of right side. 2) Detach the Connection Pipe. 3) Detach the Holder Pipe at the rear side.	
		4) Loosen the 4 fixing screws of right and left side. 5) Lifting the Heat Exchanger up a little to push the up side for separation from the indoor unit.	
5	Fan Motor & Cross Fan	1) Loosen the fixing screw. 2) Detach the Fan Motor from the Fan. 3) Detach the Fan From the left Holder Bearing.	
			

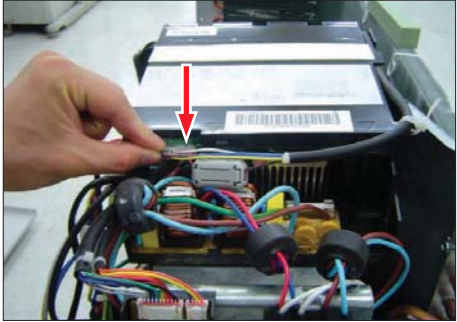
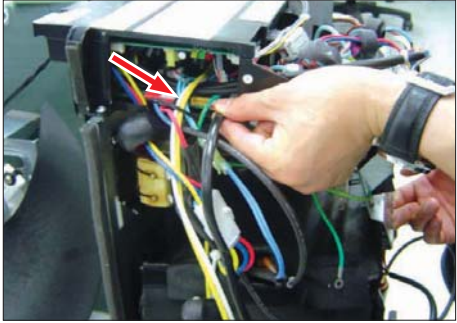
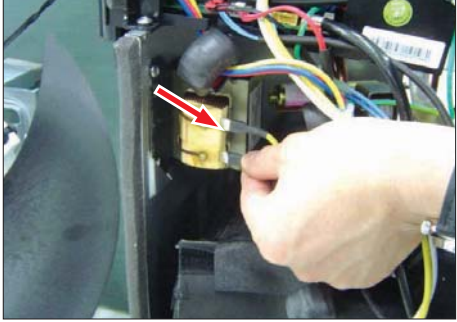
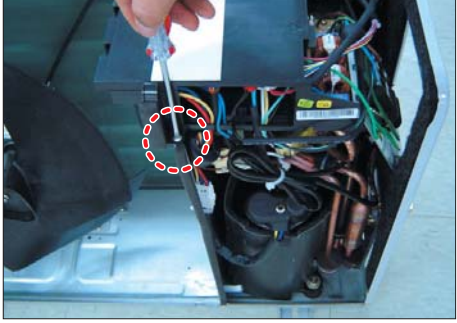
3-2 Outdoor Unit



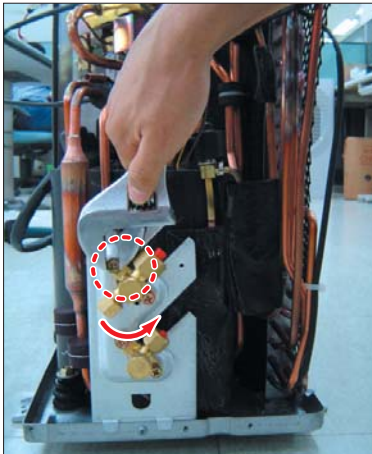

Stop operation of the air conditioner and remove the power cord before repairing the unit.

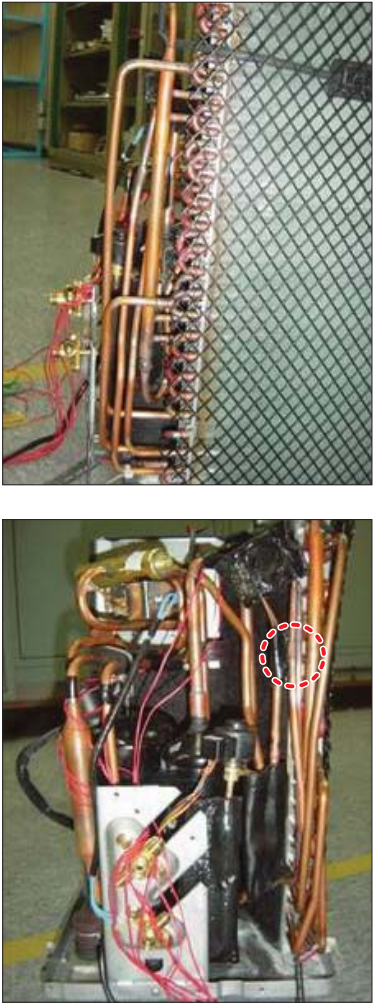

■ UH035EAV1/UH026EAV1

No	Parts	Procedure	Remark
1	Common Work	<p>⚠ Before disassembly, please make sure to shut off the power.</p> <p>1) Separate fixing screw in the Cover Side. (Use +Screw Driver.)</p> <p>2) Undo the 4 fixing screws on the left and right cabinet Side Edges then undo the screws on the lower front to separate the Cabinet Front. (Use +Screw Driver.)</p> <p>3) Separate the Cabinet Front as shown on the right picture.</p> <p>4) Undo fixing screw to remove Plate Control Out on the Cabinet Side RH. (Use +Screw Driver.)</p>	   


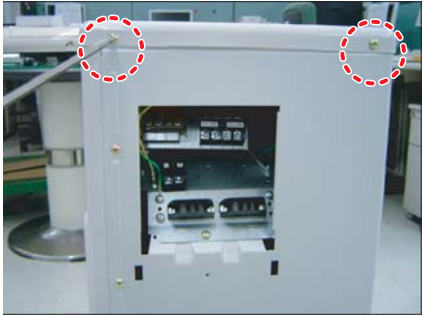
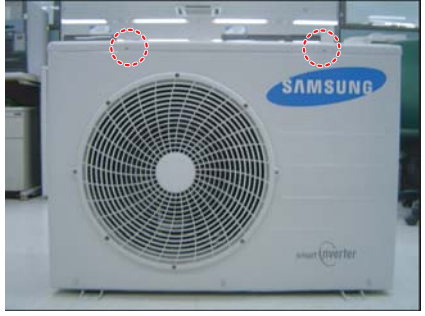


No	Parts	Procedure	Remark
		<p>5) Undo 2 fixing screws on the backside of the Cabinet Side RH. (Use +Screw Driver.)</p> <p>6) Undo 3 fixing screws to assemble Bracket Valve on the Cabinet Side RH. (Use +Screw Driver.)</p> <p>7) Undo 2 fixing screws on the Cabinet Side LF. (Use +Screw Driver.)</p>	  





No	Parts	Procedure	Remark
2	Ass'y Control Out	<ol style="list-style-type: none"> 1) Separate the Motor wire from the PCB of the Ass'y Control Out. 2) Separate several Connectors from the PCB of the Ass'y Control Out. 3) Separate 2 Connect Wires from the Reactor. 4) Undo a fixing screw to assemble the Ass'y Control Out on the Partition. (Use +Screw Driver.) 	   

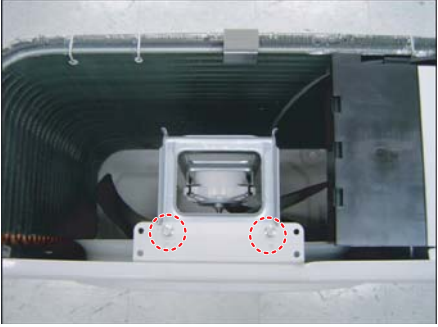
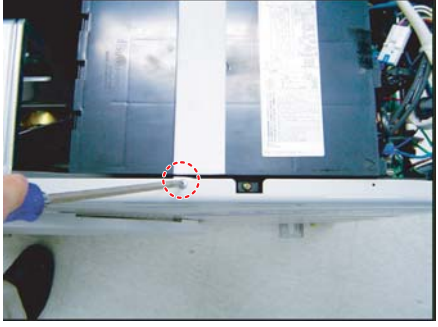
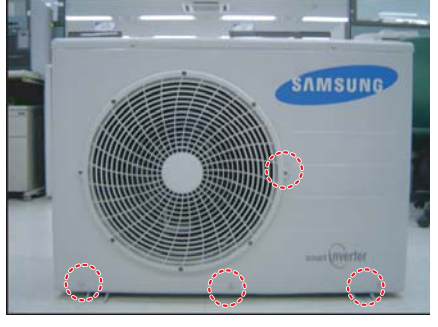
No	Parts	Procedure	Remark
3	Fan & Motor	<ol style="list-style-type: none"> 1) Release refrigerant first. 2) Undo the fixing screw. (Use +Screw Driver.) 3) Separate the induction and outlet pipes with a Welding Torch. (Use Monkey Spanner.) 4) Separate the Fan and Motor. 	
4	Heat Exchanger	<ol style="list-style-type: none"> 1) Undo 2 fixing screws. (Use +Screw Driver.) 2) Separate the induction and outlet pipes with a Welding Torch. 3) Separate the Heat Exchanger. <p>⚠ Please wear gloves when working as there is a possibility of cutting your hand.</p>	
5	Ass'y Valve 4 way & Ass'y Valve EEV	<ol style="list-style-type: none"> 1) Undo 4 fixing bolts to assemble a Valve Service on the Bracket Valve as shown in the right picture. (Use Monkey Spanner.) <p>⚠ When separating Compressor, Heat Exchanger and pipes please ensure that Compressor is completely free from any remaining refrigerant then separate all pipes with welding torch.</p> <p>■ Ass'y Valve 4 Way</p> <ol style="list-style-type: none"> 1) Separate 3 welded parts. 	 


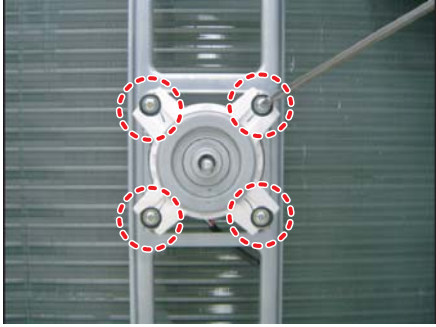

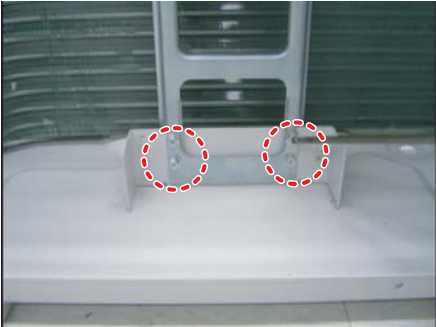
No	Parts	Procedure	Remark
		<p>■ Ass'y Valve EEV</p> <p>1) Separate 1 welded parts.</p>	
6	Compressor	<p>1) Undo nuts on the Terminal Cover.</p> <p>2) Separate the Terminal Cover and then Connect Wires from the Compressor.</p> <p>3) Separate the Felt Comp Sound.</p> <p>4) Undo 3 bolts on the flow of the Compressor as shown in the right-hand picture. (Use Monkey Spanner.)</p>	


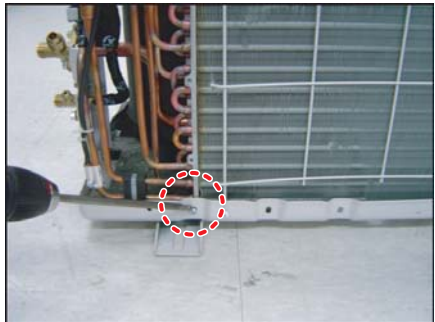
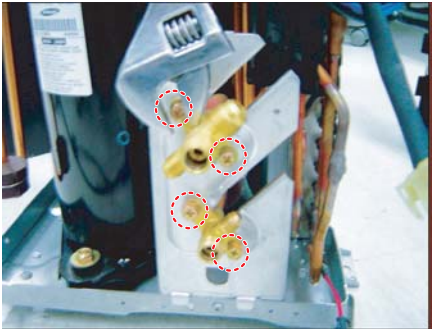
■ UH052EAV1


No	Parts	Procedure	Remark
1	Common Work	<p>1) Loosen 1 fixing screw of the Cover-Control and detach the Cover Control.</p> <p>2) Loosen fixing screws and detach the Cabinet-Upper.</p>	    

No	Parts	Procedure	Remark
		<p>3) Loosen 1 screw fixed to assemble Control Box with Cabinet-Side RH.</p> <p>4) Loosen 6 fixing screws and detach the Cabinet-Side RH.</p> <p>5) Loosen 2 screws fixed on the Guide Condenser.</p>	   



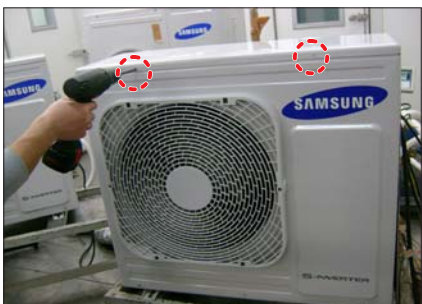

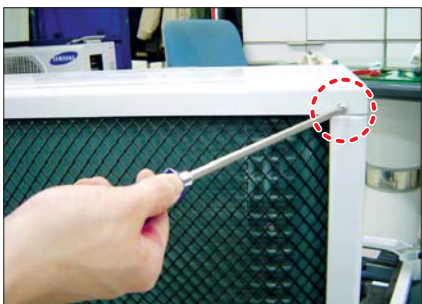
No	Parts	Procedure	Remark
		6) Loosen fixing screws of the Cabinet Front.	  


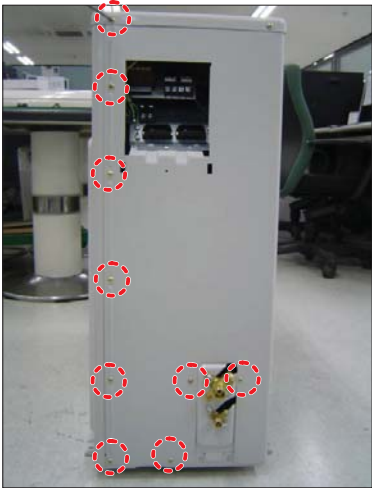
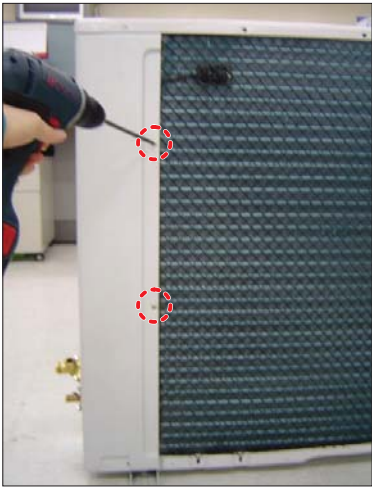

No	Parts	Procedure	Remark
2	Fan & Motor	<p>1) Detach the Nut Flange like the picture on the right side. (Turn counterclockwise because the screw is right-handed.)</p> <p>2) Detach the Fan Propeller.</p> <p>3) Loosen 4 fixing screws to detach the Motor.</p> <p>4) Disconnect the wire between ASS'Y Control Out and Motor.</p> <p>5) Loosen 2 fixing bolts and detach the Bracket Motor.</p>	   

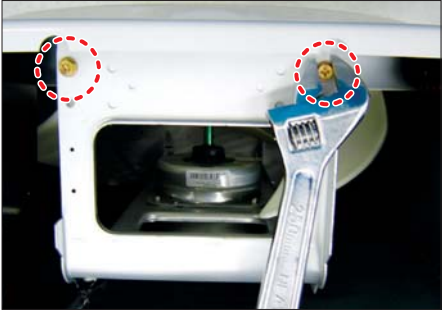
No	Parts	Procedure	Remark
3	ASS'Y Control Out	<ol style="list-style-type: none"> 1) Detach several connectors from the ASS'Y Control Out. 2) Detach several connectors from the PCB of ASS'Y Control Out. 3) Pull up the ASS'Y Control Out. 	
4	Heat Exchanger	<ol style="list-style-type: none"> 1) Release the refrigerant at first. 2) Loosen fixing screw. 3) Disassemble the pipes in both inlet and outlet with welding torch. 4) Detach the Heat Exchanger. 5) Loosen 4 bolts fixed to assemble Valve Service with Bracket Valve like the picture on the right side. 	 


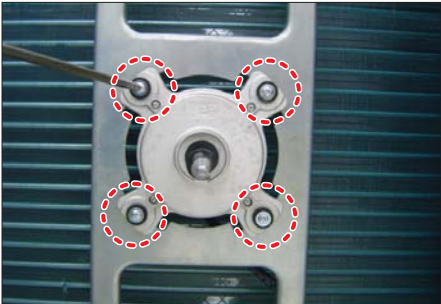

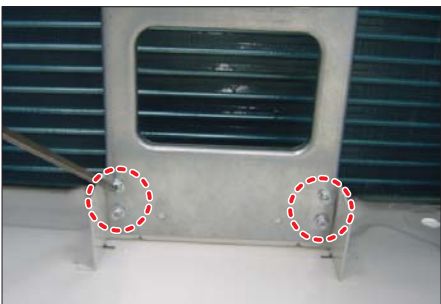
No	Parts	Procedure	Remark
5	Compressor	<p>1) Loosen the fixing nut and detach the Compressor Lead Wire.</p> <p>2) Disassemble the Felt Compressor Sound.</p> <p>3) Loosen the 3 bolts at the bottom of Compressor like the picture on the right side.</p>	  

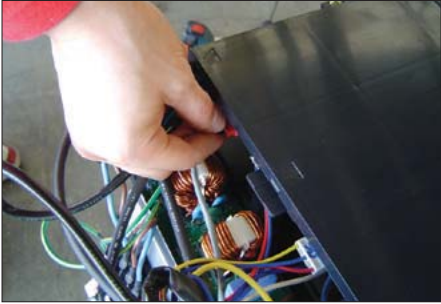

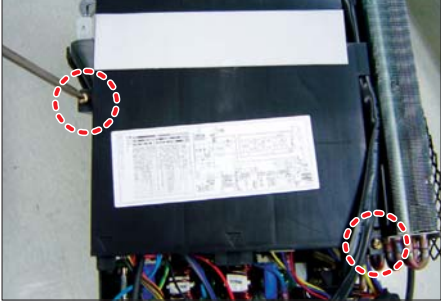
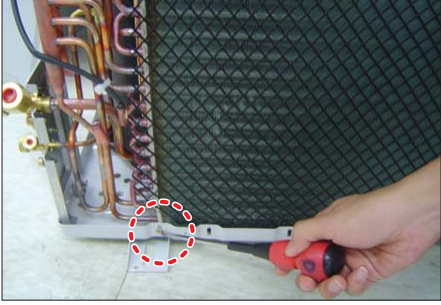

■ UH070EAV2/RC071DHXEA


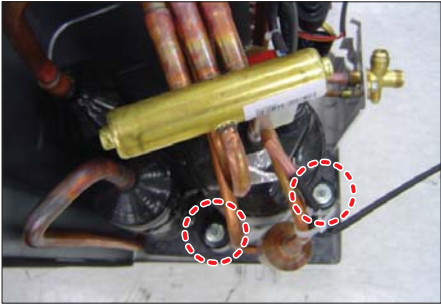

No	Parts	Procedure	Remark
1	Common Work	<p>1) Loosen 1 fixing screw of the Cover-Control and detach the Cover Control.</p> <p>2) Loosen each 7 fixing screws and detach the Cabinet Upper.</p>	    

No	Parts	Procedure	Remark
		<p>3) Loosen 1 screw fixed to assemble Control Box with Cabinet-Side RH.</p> <p>4) Loosen fixing screws and detach the Cabinet-Side RH.</p> <p>5) Loosen 2 screws fixed on the Guide Condenser.</p>	   






No	Parts	Procedure	Remark
		6) Loosen fixing screws of the Cabinet Front.	  

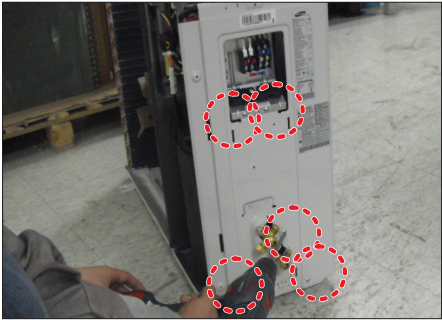
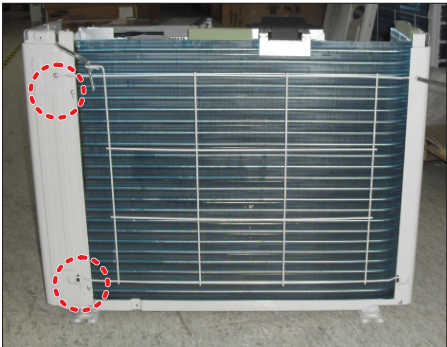
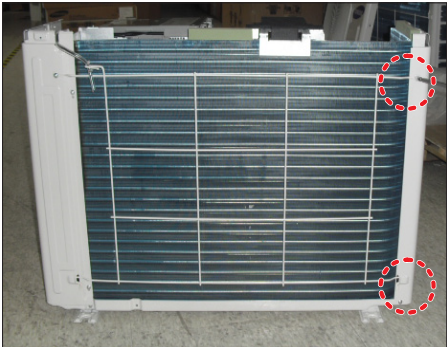
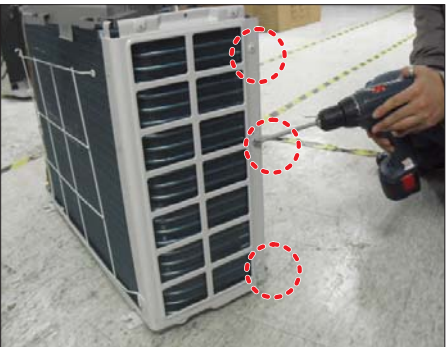
No	Parts	Procedure	Remark
2	Fan & Motor	<p>1) Detach the Nut Flange like the picture on the right side. (Turn counter clockwise because the screw is right-handed.)</p> <p>2) Detach the Fan Propeller.</p> <p>3) Loosen 4 fixing screws to detach the Motor.</p> <p>4) Disconnect the wire between ASS'Y Control Out and Motor.</p> <p>5) Loosen 2 fixing bolts and detach the Bracket Motor.</p>	   




No	Parts	Procedure	Remark
3	ASS'Y Control Out	<ol style="list-style-type: none"> 1) Detach several connectors from the ASS'Y Control Out. 2) Detach several connectors from the PCB of ASS'Y Control Out. 3) Pull up the ASS'Y Control Out. 	  
4	Heat Exchanger	<ol style="list-style-type: none"> 1) Release the refrigerant at first. 2) Loosen fixing screw on both sides. 3) Disassemble the pipes in both inlet and outlet with welding torch. 4) Detach the Heat Exchanger. 5) Loosen 4 bolts fixed to assemble Valve Service with Bracket Valve like the picture on the right side. 	 



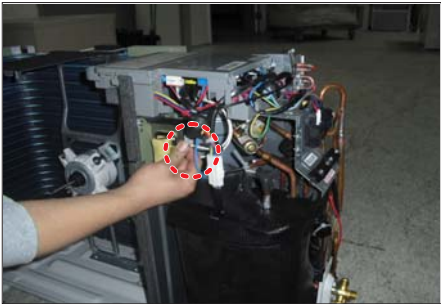

No	Parts	Procedure	Remark
5	Compressor	<p>1) Loosen the fixing nut and detach the Compressor Lead Wire.</p> <p>2) Disassemble the Felt Compressor Sound.</p> <p>3) Loosen the 3 bolts at the bottom of Compressor like the picture on the right side.</p>	  

■ RC026DHXEA/ RC035DHXEA/ RC052DHXEA

No	Parts	Procedure	Remark
1	common work	<p>1) loosen 1 pcs screw of cover control, and detach it.</p> <p>2) loosen 5 pcs screws on both right and left cabinet side edges and to detach the cover-top</p> <p>3) Loosen 7 screws fixed to disassemble cabi-front , and detach it.</p>	    

No	Parts	Procedure	Remark
	common work	<p>4) loosen 7 screws to disassemble the cabi-right ,and detach it.</p> <p>5) loosen 2 screws to disassemble steel-bar.</p> <p>6) loosen 3 screws to disassemble cabi-left.</p>	   

No	Parts	Procedure	Remark
2	fan&motor	<p>1) loosen 1 screw as indication and detached the fan.</p> <p>2) loosen 4 pcs motor screws and disconnect the wire betweenwven assy control out and motor.</p> <p>3) loosen 2 pcs bracket-motor screw and detach it.</p>	  

No	Parts	Procedure	Remark
3	assy control out	1) loosen fixing 1 screw from cover -control 2) detach several connections from assy control out, take out assy control out.	  
4	Heat exchanger	1) Release the refrigerant at first 2) Loosen fixing screw on both side. 3) disassembly the pipes in both inlet and outlet with welding torch. 4) detach the heat exchanger.	




4. Troubleshooting

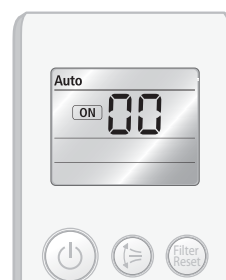
4-1 Setting Option Setup Method

4-1-1 Type A (Setting Option)

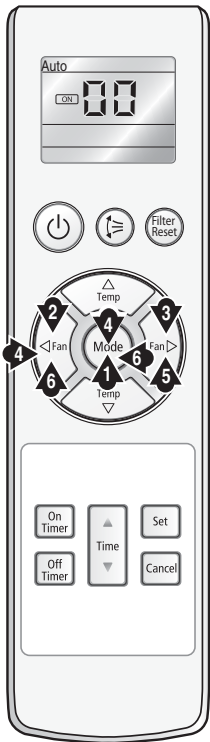







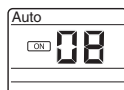












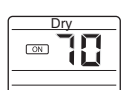



ex) Option No. : 08 77 77 13 80 66

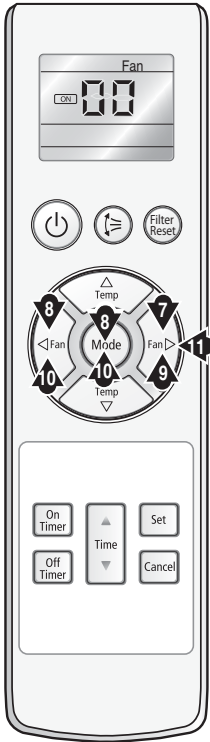




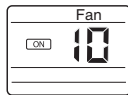


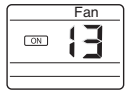









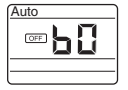


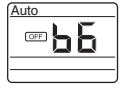
Step 1 : Enter the Option Setup mode.

- 1st Take out the batteries of remote control.
- 2nd Press the temperature   button simultaneously and insert the battery again.
- 3rd Make sure the remote control display shown as .




Step 2 : Enter the Option Setup mode and select your option according to the following procedure.

Feature		Display
	1 The default value is  . Every time you push the  button, the display panel reads  Auto → Cool → Dry → Fan → Heat,  Auto → Cool → Dry → Fan → Heat repeatedly.	
	2 Push the  button to set the display panel to 8. Every time you push the  button, the display panel reads 0 → 1 → 2 → 3 → → 9 → A → b → c → d → E → F repeatedly.	
	3 Push the  button to  . Push the  button to set the display panel to 7. Every time you push the  button, the display panel reads 0 → 1 → 2 → 3 → → 9 → A → b → c → d → E → F repeatedly.	
	4 Push the  button to set the display panel to 7. Every time you push the  button, the display panel reads 0 → 1 → 2 → 3 → → 9 → A → b → c → d → E → F repeatedly.	
	5 Push the  button to  . Push the  button to set the display panel to 7. Every time you push the  button, the display panel reads 0 → 1 → 2 → 3 → → 9 → A → b → c → d → E → F repeatedly.	
	6 Push the  button to set the display panel to 7. Every time you push the  button, the display panel reads 0 → 1 → 2 → 3 → → 9 → A → b → c → d → E → F repeatedly.	

	Feature	Display
	7 Push the  button to  . Push the  button to set the display panel to 1 . Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.	
	8 Push the  button to set the display panel to 3 . Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.	
	9 Push the  button to  . Push the  button to set the display panel to 8 . Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.	
	10 Push the  button to  . Push the  button to set the display panel to b . Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.	
	11 Push the  button to set the display panel to 6 . Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.	


Step 3 : Upon completion of the selection, check you made right selections.

Press the Mode  Selection key to set the display part and check the display part.

➔ The display part shows like below when each time you press Mode button .



Step 4 : Pressing the ON/OFF button ()

When pressing the operation ON/OFF key with the direction of remote control for unit, the sound "Ding" or "Diriring" is heard and the OPERATION ICON() lamp of the display is flickering at the same time, then the input of option is completed. (If the diriring sound isn't heard, try again pressing the ON/OFF button.)

Step 5 : Unit operation test-run

First, Remove the battery from the remote control.

Second, Re-insert the battery into the remote control.

Third, Press ON/OFF key with the direction of remote control for set.

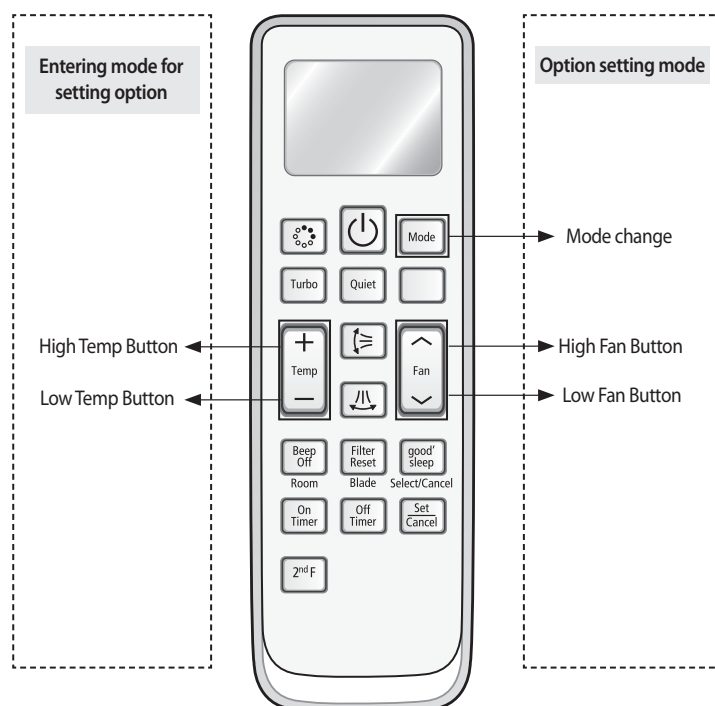
• Error Mode

- 1st If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.
- 2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

4-1-2 Setting an indoor unit address and installation option

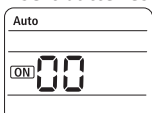
- ▶ Set the indoor unit address and installation option with remote controller option.
Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.
- ▶ Please use the proper wireless remote which can set 24 digit option code. Following is the instructions of setting option code with wireless remote of MR-DH00. (MR-AH01 can be used for operating but cannot be used for setting the installation option because only 12 digit option setting is available.)
- ▶ Please refer to the wired remote installation manual for setting with the wired remote.

4-1-2-1 The procedure of setting option



Step 1. Entering mode to set option

1. Remove batteries from the remote controller.
2. Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button.

3.  Check if you have entered the option setting status.

Step 2. The procedure of option setting

After entering the option setting status, select the option as listed below.





Option setting is available from SEG1 to SEG 24

SEG1, SEG7, SEG13, SEG18 are not need to be set at MR-DH00. They are the page options which were used at the previous other remotes.

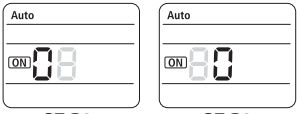
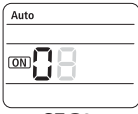
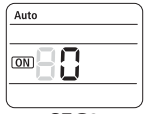

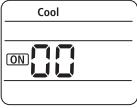
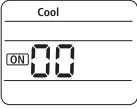
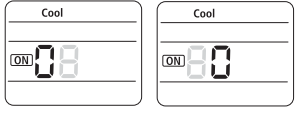
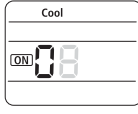
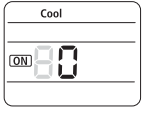

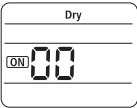
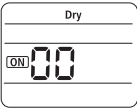
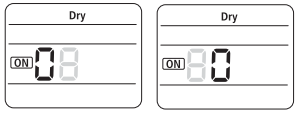
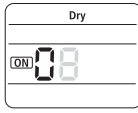
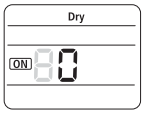

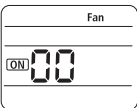
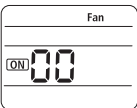
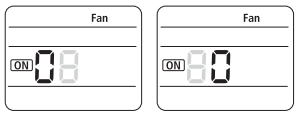
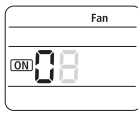
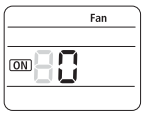

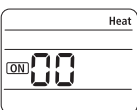
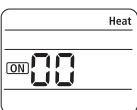
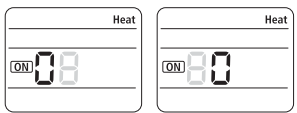
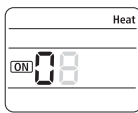
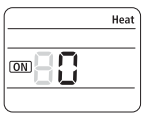



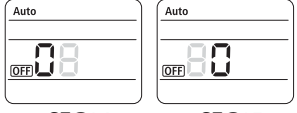
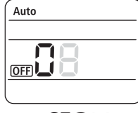
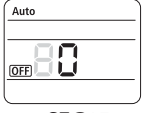
Set the each 2 bit option code in order except page options.

For example: SEG2, 3 → SEG4, 5 → SEG6, 8 → SEG9, 10 → SEG11, 12 → SEG 14, 15 → SEG 16, 17 → SEG 18, 20 → SEG 21, 22 → SEG23, 24.


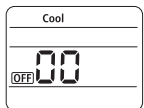
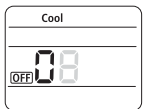
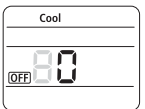

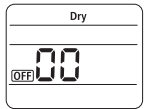
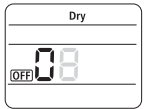
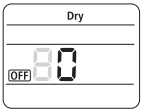

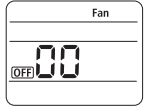
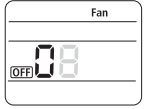
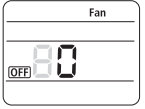

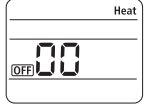
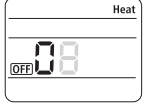
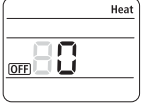
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X

On(SEG1~12)	Off(SEG13~24)
	

4-1-2-2 The procedure of setting option

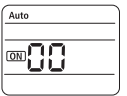
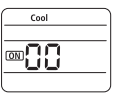


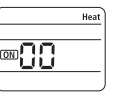




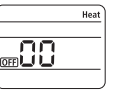
Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(∇) to enter SEG2 value. Press High Fan button(∧) to enter SEG3 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	 <div>   </div> <div> SEG2 SEG3 </div>
2. Setting Cool mode  Press Mode button to be changed to Cool mode in the ON status.	 <div>  </div>
3. Setting SEG4, SEG5 option Press Low Fan button(∇) to enter SEG4 value. Press High Fan button(∧) to enter SEG5 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	 <div>   </div> <div> SEG4 SEG5 </div>
4. Setting Dry mode  Press Mode button to be changed to DRY mode in the ON status.	 <div>  </div>
5. Setting SEG6, SEG8 option Press Low Fan button(∇) to enter SEG6 value. Press High Fan button(∧) to enter SEG8 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	 <div>   </div> <div> SEG6 SEG8 </div>
6. Setting Fan mode  Press Mode button to be changed to FAN mode in the ON status.	 <div>  </div>
7. Setting SEG9, SEG10 option Press Low Fan button(∇) to enter SEG9 value. Press High Fan button(∧) to enter SEG10 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	 <div>   </div> <div> SEG9 SEG10 </div>
8. Setting Heat mode  Press Mode button to be changed to HEAT mode in the ON status.	 <div>  </div>
9. Setting SEG11, SEG12 option Press Low Fan button(∇) to enter SEG11 value. Press High Fan button(∧) to enter SEG12 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	 <div>   </div> <div> SEG11 SEG12 </div>
10. Setting Auto mode  Press Mode button to be changed to AUTO mode in the OFF status.	 <div>  </div>
11. Setting SEG14, SEG15 option Press Low Fan button(∇) to enter SEG14 value. Press High Fan button(∧) to enter SEG15 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	 <div>   </div> <div> SEG14 SEG15 </div>

The procedure of setting option (cont.)


Option setting	Status
12. Setting Cool mode  Press Mode button to be change to Cool mode in the OFF status.	
13. Setting SEG16, SEG17 option Press Low Fan button(∨) to enter SEG16 value. Press High Fan button(∧) to enter SEG17 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG16 SEG17
14. Setting Dry mode  Press Mode button to be change to Dry mode in the OFF status.	
15. Setting SEG18, SEG20 option Press Low Fan button(∨) to enter SEG18 value. Press High Fan button(∧) to enter SEG20 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG18 SEG20
16. Setting Fan mode  Press Mode button to be change to Fan mode in the OFF status.	
17. Setting SEG21, SEG22 option Press Low Fan button(∨) to enter SEG21 value. Press High Fan button(∧) to enter SEG22 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG21 SEG22
18. Setting Heat mode  Press Mode button to be change to HEAT mode in the OFF status.	
19. Setting SEG23, SEG24 mode Press Low Fan button(∨) to enter SEG23 value. Press High Fan button(∧) to enter SEG24 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG23 SEG24

Step 3. Check the option you have set

After setting option, press  button to check whether the option code you input is correct or not.

Option	[SEG2,3]	[SEG4,5]	[SEG6,8]	[SEG9,10]	[SEG11,12]
Remote Controller Display					
Option	[SEG14,15]	[SEG16,17]	[SEG18,20]	[SEG21,22]	[SEG23,24]
Remote Controller Display					

Step 4. Input option

Press operation button  with the direction of remote control for set.
 For the correct option setting, you must input the option twice.

Step 5. Check operation

1. Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
2. Take the batteries out of the remote controller and insert them again and then press the operation button.

4-1-2-3 Setting an indoor unit address (MAIN/RMC)

1. Check whether power is supplied or not.
- When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
4. Assign an indoor unit address by wireless remote controller.
- The initial indoor unit ADDRESS is set as "MAIN : 0, RMC : 0".
- Set Main and RMC Address only the setting is required.
- There is no need to assign the indoor unit Main Address if the outdoor unit is addressing automatically.
The indoor unit Main address will follow the outdoor unit's automatically.
- Assign 12 digit when setting the indoor unit address.
- No need to assign SEG4, 5, 8, 10 which are non applicable. Even though those segments are set, they will be ignored.
- If you set the applicable segments with numbers other than the indicated, the initial setting will be maintained.

Option No. : 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4	SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		RESERVED	RESERVED		The unit digit of an indoor unit	
Indication and Details	Indication	Details	Indication	Details	Indication	Details				Indication	Details
	0		A		0	No Main address				0~3	A single digit
					1	Main address setting mode					
Option	SEG7		SEG8		SEG9		SEG10	SEG11		SEG12	
Explanation	PAGE		RESERVED		Setting RMC address		RESERVED	Group channel(*16)		Group address	
Indication and Details	Indication	Details			Indication	Details		Indication	Details	Indication	Details
	1				0	No RMC address		RMC1	0~2	RMC2	0~F
					1	RMC address setting mode					

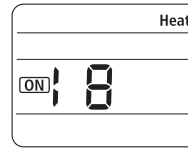
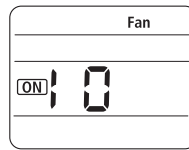
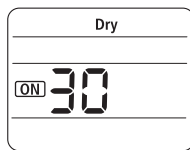
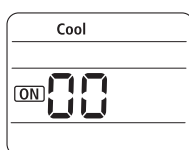
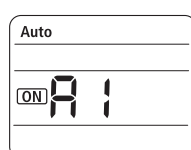


When "A"~"F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.
If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG6.
If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.

Example) If you want to set as "MAIN : 3, CHANNEL : 1, RMC : B",

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	A	1	-	-	3
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	-	1	-	1	B

assign option codes except SEG 1, 7 which are page options.



4-1-2-4 Setting an indoor unit installation option (suitable for the condition of each installation location)

1. Check whether power is supplied or not.
- When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Set the installation option according to the installation condition of an air conditioner.
- The default setting of an indoor unit installation option is "02000-100000-200000-300000".
- Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
- No need to assign SEG3, 6, 9, 10, 11, 16, 21, 22, 23, 24 which are non applicable. Even though those segments are set, they will be ignored.
- If you set the applicable segments with numbers other than the indicated, the initial setting will be maintained.
4. Set the indoor unit option by wireless remote controller.

Option No. : 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		RESERVED		Use of external temperature sensor		Use of central control		RPM setting compensation	
Indication and Details	Indication	Details	Indication	Details			Indication	Details	Indication	Details	0. Not used 1. High ceiling mode 2. High ceiling kit 3. Low noise operation mode	
	0		2				0	Disuse	0	Disuse		
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		Use of drain pump		RESERVED		RESERVED		RESERVED		Master / Slave	
Indication and Details	Indication	Details	Indication	Details							Indication	Details
	1		0	Disuse							0	slave
			1	Use							1	master
			2	Use + 3minute delay								
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		Use of external control		Setting the output of external control		S-Plasma ion		Buzzer control		Number of hours using filter	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	0	Thermo on	0	Disuse	0	Use of buzzer	2	1000 Hour
			1	ON/OFF Control	1	Operation on	1	Use	1	Non use of buzzer	6	2000 Hour
			2	OFF Control								

Option	SEG19		SEG20		SEG21	SEG22	SEG23	SEG24	
Explanation	PAGE		Individual control of a remote controller		RESERVED	RESERVED	Motion detect sensor	RESERVED	
Indication and Details	Indication	Details	Indication	Details			Indication		Details
	3		0 or 1	Indoor 1			0.No Use (Factory Setting) 1.Standard Mode/Auto Set OFF30 Min. 2.Standard Mode/Auto Set OFF60 Min. 3.Standard Mode/Auto Set OFF 120 Min. 4.Standard Mode/Auto Set OFF 180 Min. 5.Premium Mode/Auto Set OFF30 Min.6.Premium Mode/Auto Set OFF60 Min. 7.Premium Mode/Auto Set OFF 120 Min. 8.Premium Mode/Auto Set OFF 180 Min.		
			2	Indoor 2					
			3	Indoor 3					
			4	Indoor 4					

► If you input a number other than 0~4 on the individual control of the indoor unit(SEG 20), the indoor is set as "Indoor 1".

Example) If you want to set as "Exterior temperature sensor : USE, External control : USE, Number of hours using filter : 2000hr",

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	1	0	-
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	0	-	-	-	0
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	1	0	-	0	6
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	0	-	-	-	-

assign option codes except SEG 1, 7, 13, 19 which are page options.

4-3-3-5 Changing a particular option

You can change each digit of set option.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		The option mode you want to change		The tens' digit of an option SEG you will change		The unit digit of an option SEG you will change		The changed value	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F



NOTE

When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.

When changing a digit of indoor unit installation option, set the SEG3 as '2'.

Ex) When setting the 'buzzer control' into disuse status.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1

■ Option Items

MODEL	OPTIONAL CODE
NS026NHXEA	027770-13022C-200000-300000
NS035NHXEA	027770-15024E-200000-300000
NS052NHXEA	026770-19025C-200000-300000
NS070NHXEA	027770-1C026C-200000-300000
NS026NDXEA	019057-17622C-271A23-370010 020000-100000-200000-300000 034143-103247-241433-324700
NS035NDXEA	019057-17624E-272328-370010 020000-100000-200000-300000 034B4A-104951-24B4A4-395100
NS052NDXEA	019057-16625C-27343C-370010 020000-100000-200000-300000 034B4B-104348-24B4B4-334800
NS071NDXEA	019037-1562AC-274750-370010

◆ If you are going to use up to SEG 24, please refer to following instruction.

SEG 17 : 0 1: Using high ceiling kit for 4way.

SEG 18 :

	Not in use	Use
Change temperature display	0(Celsius)	1(Fahrenheit)
Sound Mute	0	2
Mixed operation control	0	4

◆ If you want to use multiple functions, add each of the 'use' value of the function you want to used and input the final addition as option value.(Use Fahrenheit + Sound mute + Mixed operation control : 1 + 2 + 4 = 7)

Ex) 044217-1d00e6-200000-300000
















When using Sound mute : 044217-1d00e6-200002-300000

When using high ceiling kit for 4way and mixed operation error preventing function : 044217-1d00e6-200014-300000

4-2 Things to check before diagnosis

- ◆ If an error occurs during the operation, one or more LED flickers and the operation is stopped except the LED.
- ◆ If you re-operate the air conditioner, it operates normally at first, then detect an error again.


4-2-1 Display Error mode

Description	LAMP		
	OPERATION	TIMER	DEFROST
			
Communication error between indoor units	X		
Error of temperature sensor in the indoor unit (Open/Short)	X		X
Error of heat exchanger sensor in the indoor unit			X
Indoor fan motor mal function	X	X	
EEPROM error			
EEPROM option error			

● On  Flickering X Off


※ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

4-2-2 Wired remote controller(Optional resource)

- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.


Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
801	Indoor unit communication error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
802	Communication time-out error between indoor/outdoor unit 6-packet over error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
821	Indoor temperature sensor (open/short error)	Check the temp. sensor of the indoor unit room. Check the indoor PCB connector CN21(white)	Operation-off	Indoor sensor error
822	Indoor unit Eva In sensor (open/short)	Check the indoor unit drainage pipe sensor Check the indoor PCB connector CN21 (white)	Operation-off	Indoor sensor error
828	Dismount of indoor unit Eva In sensor	Check the drainage pipe has been dismantled	Operation-off	Indoor sensor error
853	Secondary detection of indoor floating switch	Check the indoor unit's float sensor Check the indoor PCB connector CN51 (black)	Operation-off	Self-diagnosis error
201	Indoor unit not connected	Check the indoor unit connection Check the indoor unit option	Operation-off	Communication error
203	Communication error between indoor/outdoor unit INV and Main Micom (1 min.)	Check the Main MICOM Check the inverter MICOM	-	Communication error
221	Outdoor temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
231	Cond. temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
251	[inverter] Emission temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
486	Excessive temperature emission	Not an error (discharge temp. control)	-	Outdoor unit protection control error
425	Power cable connection error	Check the status of power connection	Operation-off	Outdoor sensor error

Wired remote controller (cont.)

- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
450	Non-connection error of indoor and outdoor Communication wire (connected to the power terminal)	Check the status of power connection Check the connection status of the communication line	Operation-off	Self-diagnosis error
458	Outdoor fan 1 error	Check the input power connection status Check the connection status between the motor and PCB in outdoor unit Check the fuse of indoor/outdoor units	Operation-off	Self-diagnosis error
461	[inverter] Compressor operation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
462	Discharge current error/ PFC over-current error	Check the input power Check refrigerant is filled Check outdoor fan operates normally	Operation-off	Outdoor unit protection control error
464	[inverter] IPM over current error	Check refrigerant is filled Check the connection status of compressor and if it operates normally Check for any obstacles around indoor/outdoor units	Operation-off	Outdoor unit protection control error
467	[inverter] Compressor rotation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
468	[inverter] Current sensor error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
469	[inverter] DC link voltage sensor error	Check the connection of input power Check the status of RY21 and R2000 of Inverter PCB	Operation-off	Outdoor unit protection control error
486	[inverter] OTP error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
485	Outdoor fan 2 error	Check the connection status of input power Check the connection status of motor and outdoor PCB Check the fuse of indoor/outdoor unit	Operation-off	Self-diagnosis error
554	Gas leakage error	Check refrigerant is filled Check the indoor EVA sensor	Operation-off	Self-diagnosis error
556	Inconsistent volume	Check the indoor unit's option code	Operation-off	Outdoor unit protection control error

Wired remote controller (cont.)

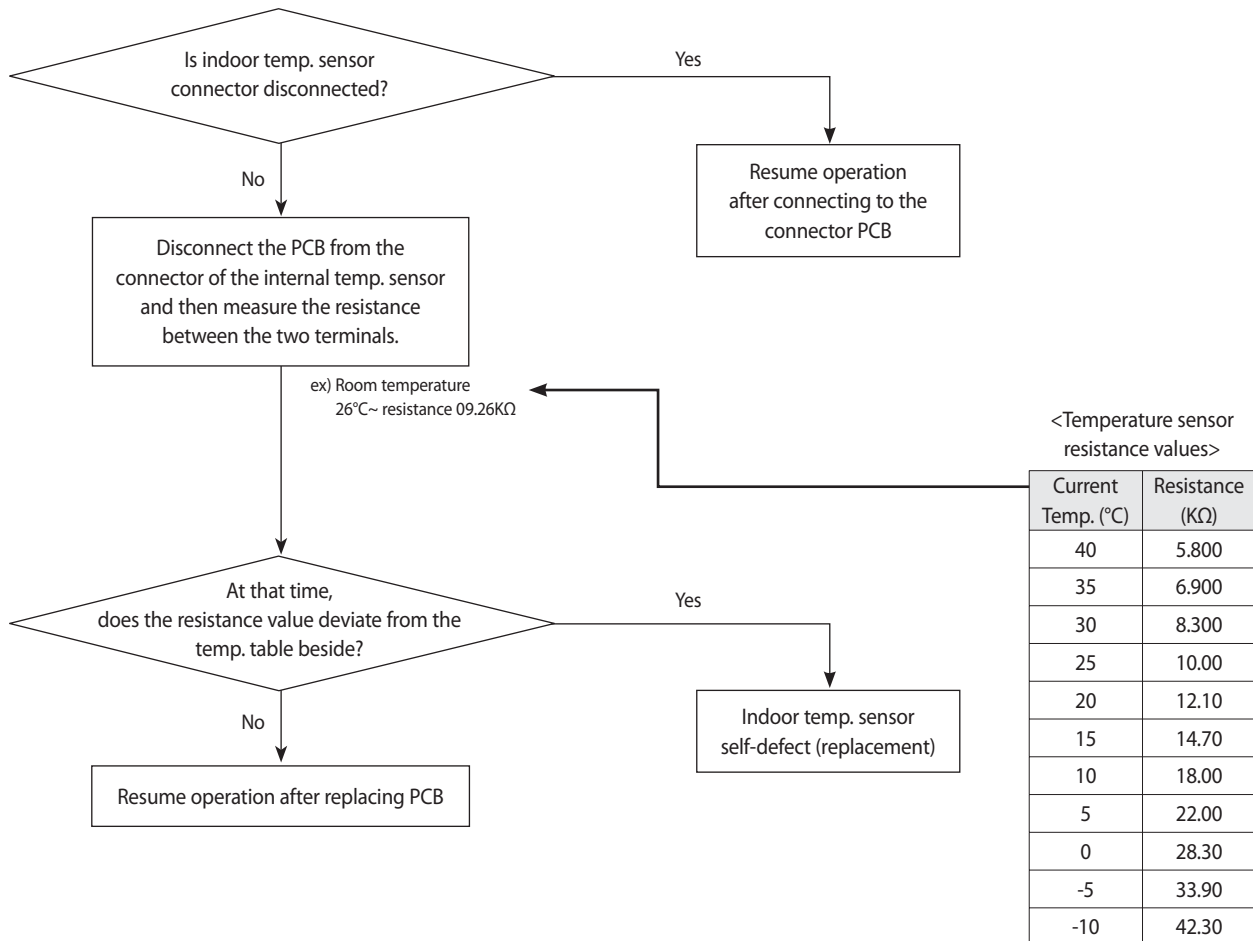
- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
601	Communication error between indoor unit and wired remote controller	Check the connection wire linking indoor unit and wired remote controller	Normal operation	Wired remote controller control error
602	Communication error between master and slave wired remote controller	Check the option switch that distinguishes master and slave (Available only for 1 master unit and 1 slave unit)	Normal operation	Wired remote controller control error
606	Cross installation error of COM1/COM2	Check the connection of outdoor unit and wired remote controller is linked to Com2 terminal of the indoor unit	Normal operation	Wired remote controller control error
8EA	Wired remote controller COM2 setting option error	Check the Dip switch for Com1 and Com2 is set to Com2	Normal operation	Wired remote controller control error

4-3 Fault Diagnosis by Symptom

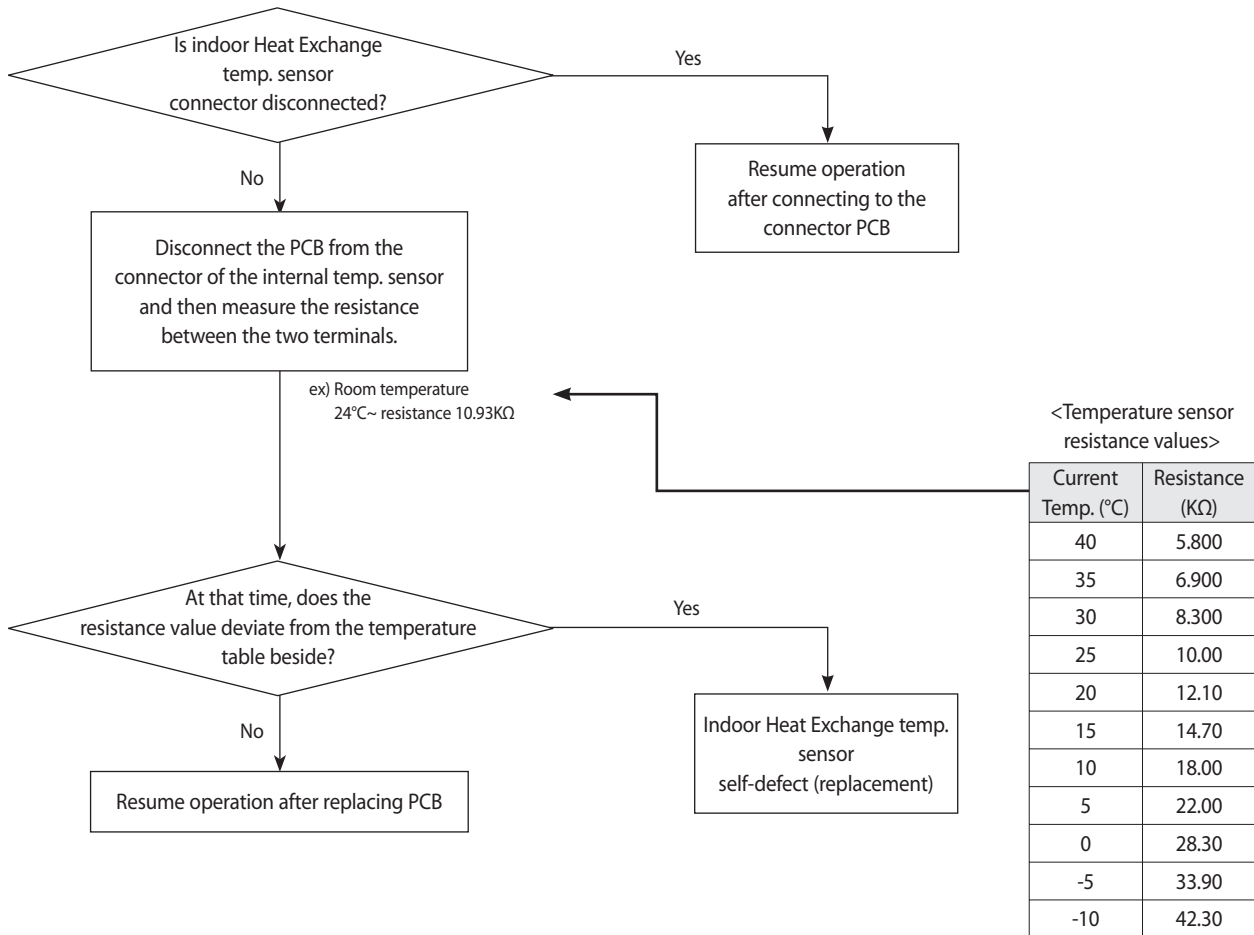
4-3-1 Indoor temperature sensor (open/short)

Indoor unit display	X(Operation) ● (Timer) X(Defrost)
Criteria	In case of disconnection or short-circuit of the indoor temperature sensors
Cause of problem	Disconnection or short-circuit of the relevant sensors



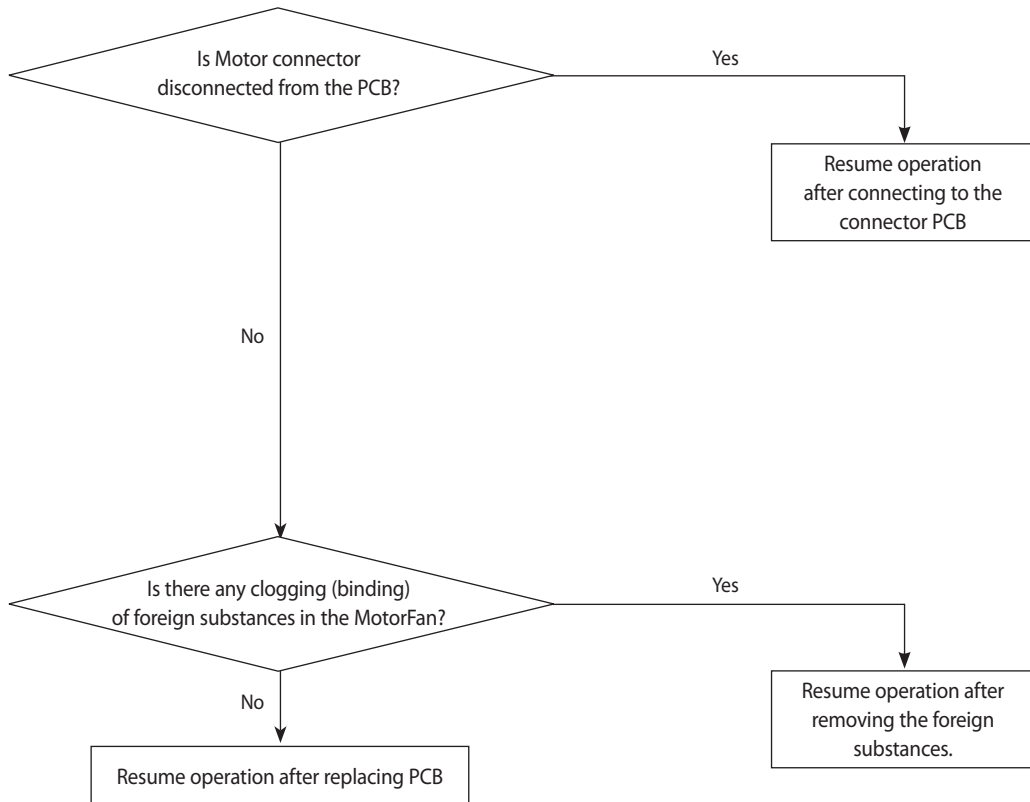
4-3-2 Indoor Heat Exchange temperature sensor (open/short)

Indoor unit display	●(Operation) ●(Timer) X(Defrost)
Criteria	In case of disconnection or short-circuit of the heat exchanger of indoor temperature
Cause of problem	Disconnection or short-circuit of the relevant sensors



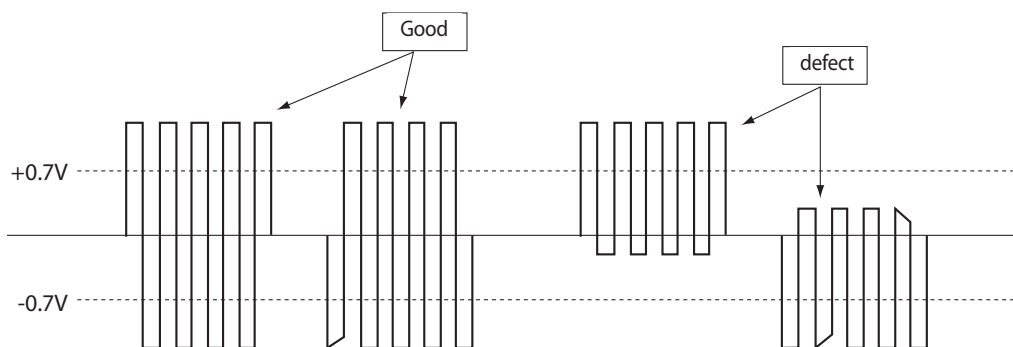
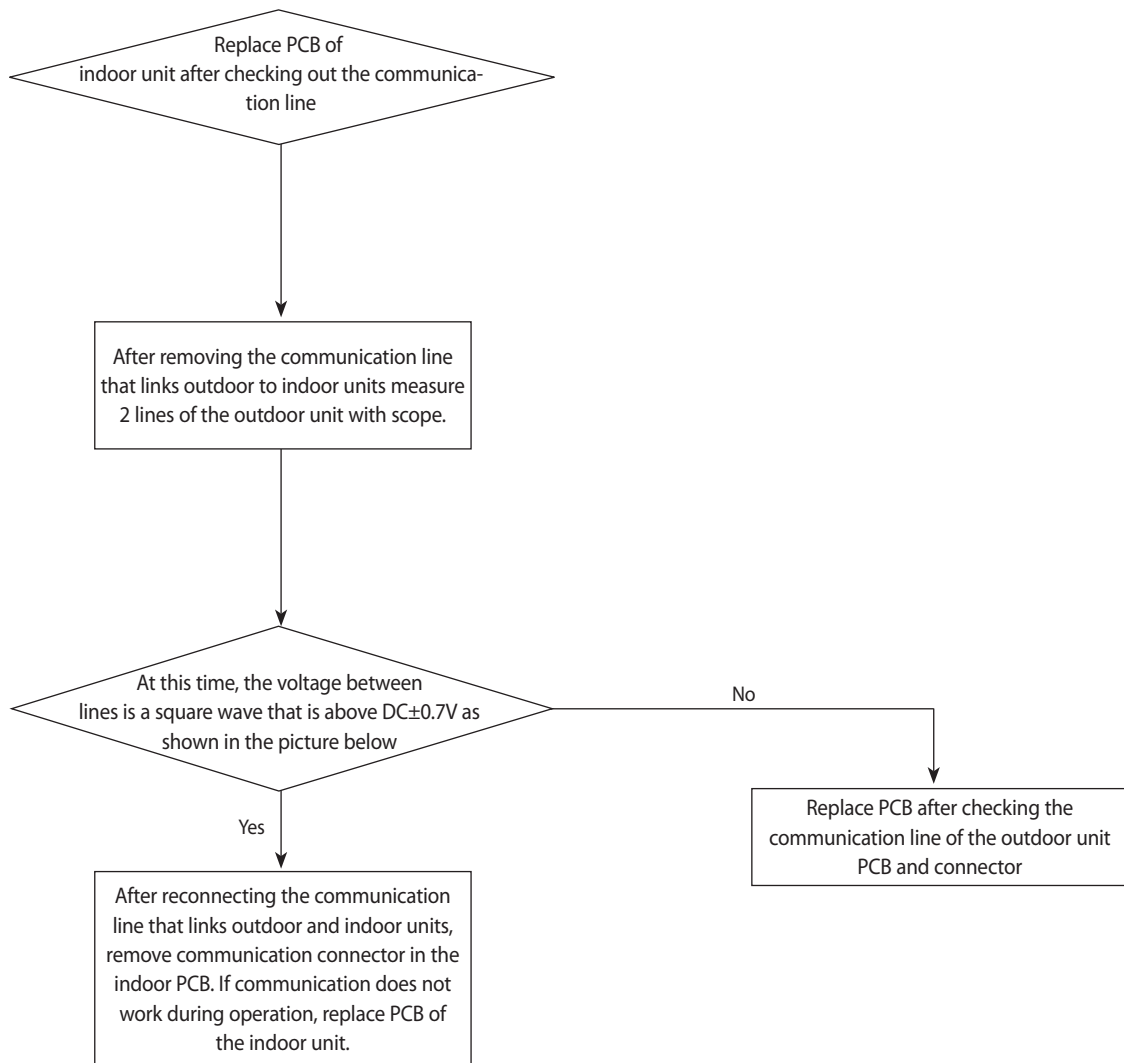
4-3-3 Indoor Fan error

Indoor unit display	X(Operation) X(Timer) ●(Defrost)
Criteria	Indoor fan being non-operative/ stop after excessive high speed
Cause of problem	Check for motor connector disconnect/ check motor fan fastening



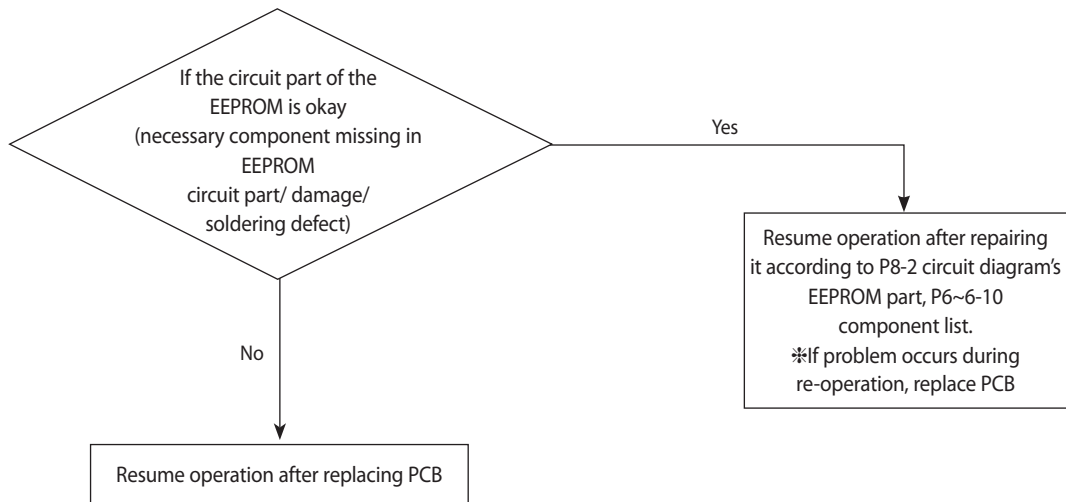
4-3-4 Communication error after completion of tracking

Indoor unit display	X(Operation) ●(Timer) ●(Defrost)
Criteria	If communication between indoor and outdoor units has been blocked for 2 minutes during operation
Cause of problem	Communication error between indoor and outdoor unit



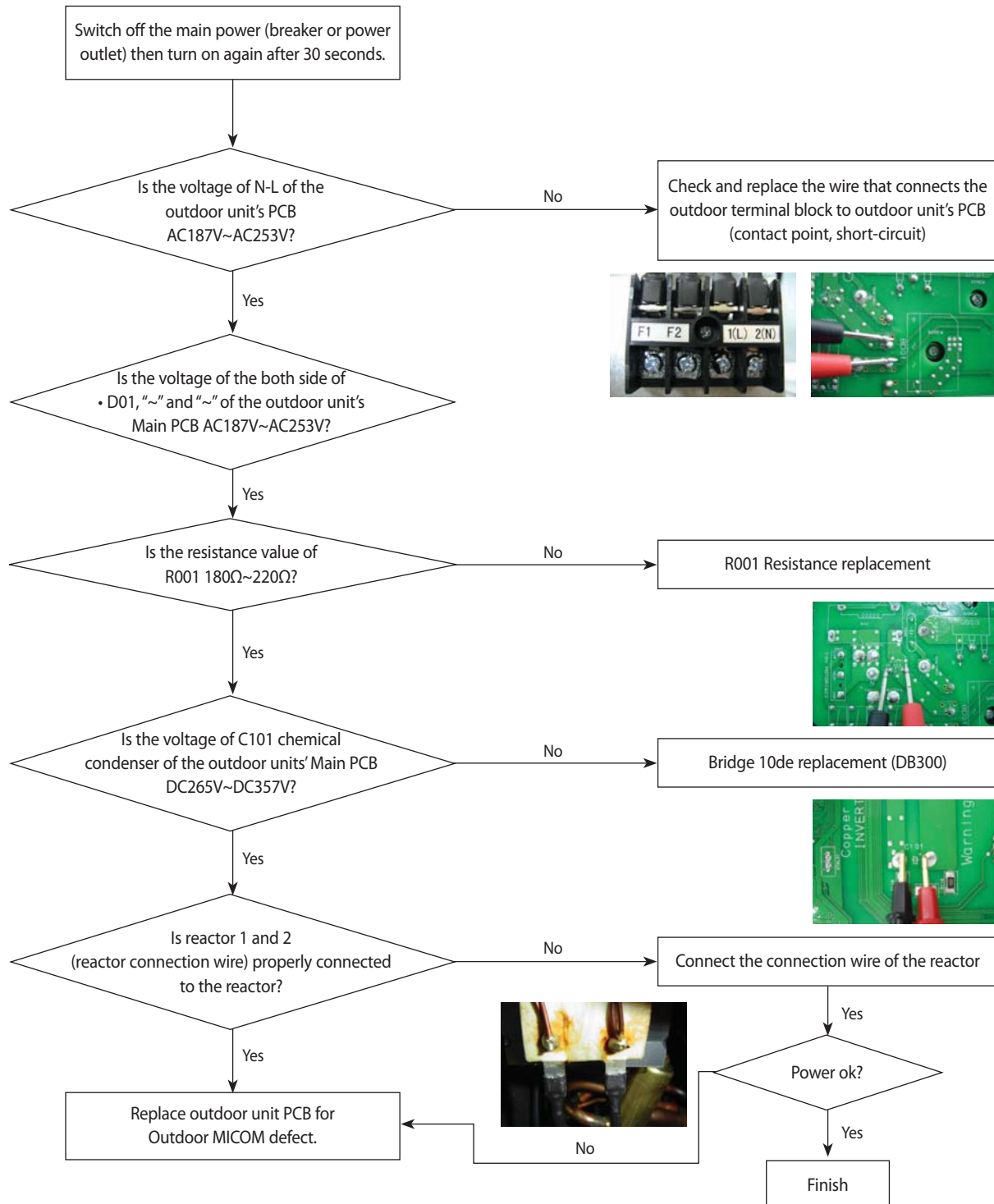
4-3-5 EEPROM circuit part defect

Indoor unit display	● (Operation) ● (Timer) ● (Defrost)
Criteria	EEPROM circuit part defect
Cause of problem	EEPROM component defect/ necessary component missing in EEPROM circuit part/ damage/ soldering



4-3-6 When outdoor units cannot be turned on

1. Cause of the breakdown
 - 1) Is power voltage 220V?
 - 2) Is AC power properly connected?
 - 3) Are the LEDs of Main PCB and inverter PCB of the outdoor unit on?
 - 4) Is the power supply of the outdoor unit 220V?
2. Inspection order

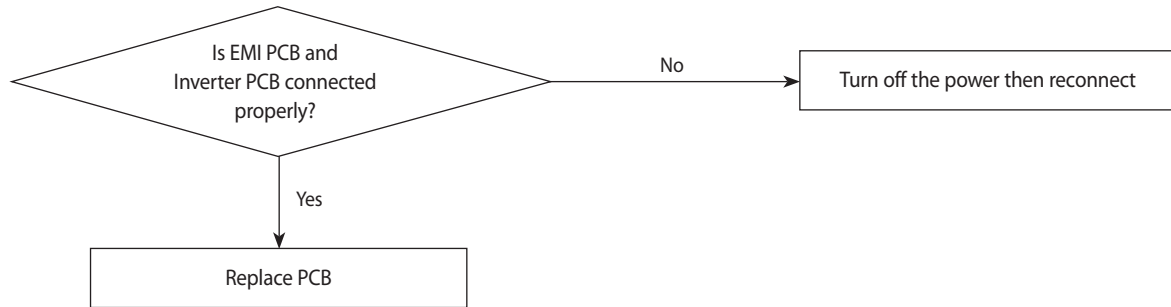


4-3-7 DC link and over/lower voltage error

1. Inspection items

- 1) Is compressor operating properly?
- 2) Is there a connection between input power and power?

2. Inspection order

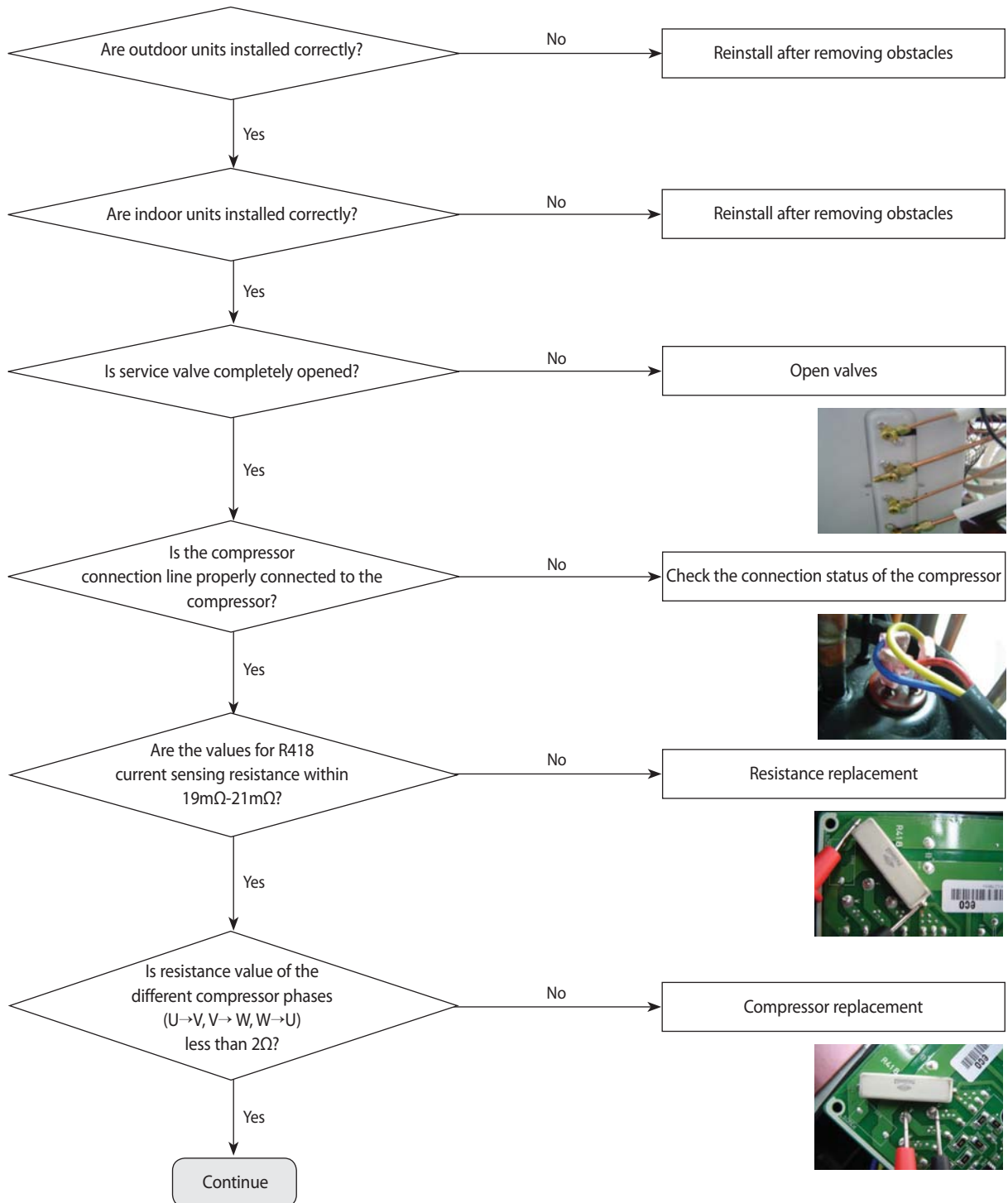


4-3-8 IPM and over current error

1. Inspection items

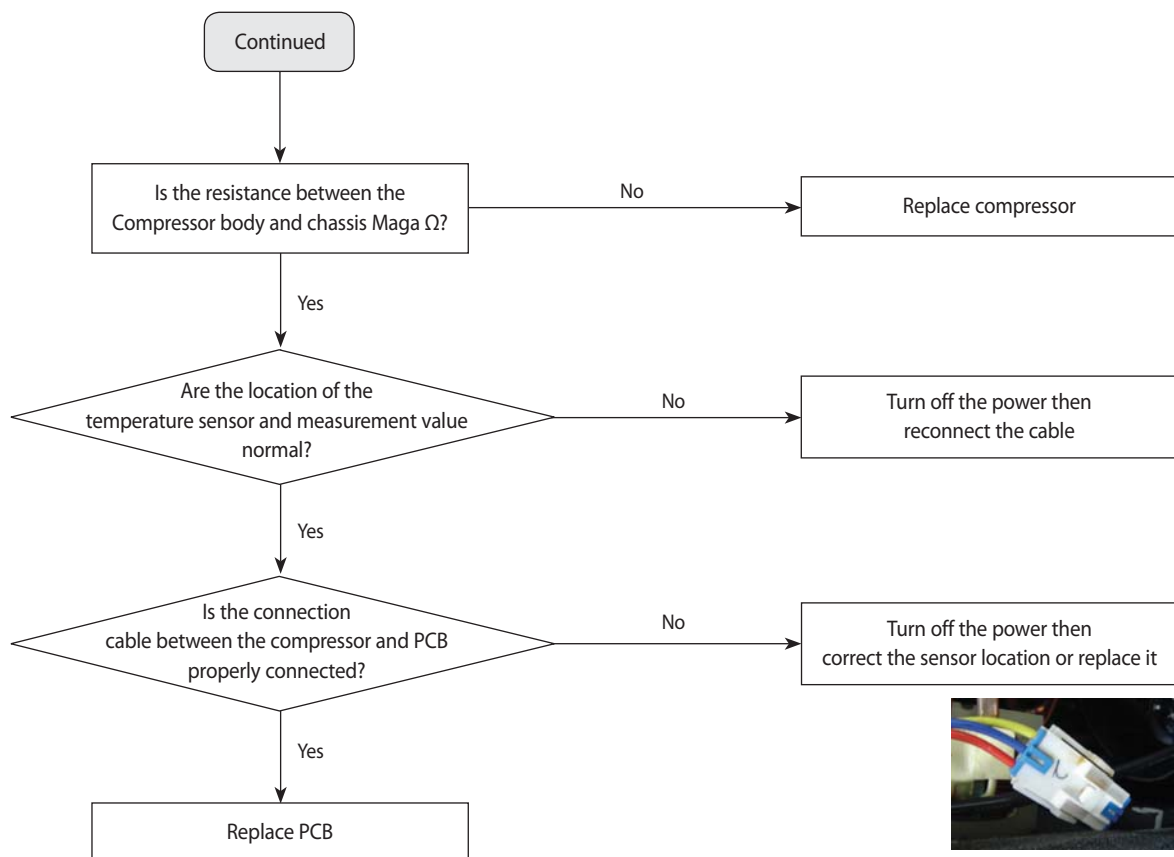
- 1) Is refrigerant filled?
- 2) Is the compressor operating without a problem?
- 3) Is the compressor connected properly?
- 4) Are there any obstacles around the indoor/outdoor units?

2. Inspection order



(continued on the back)

IPM and over current error (cont.)

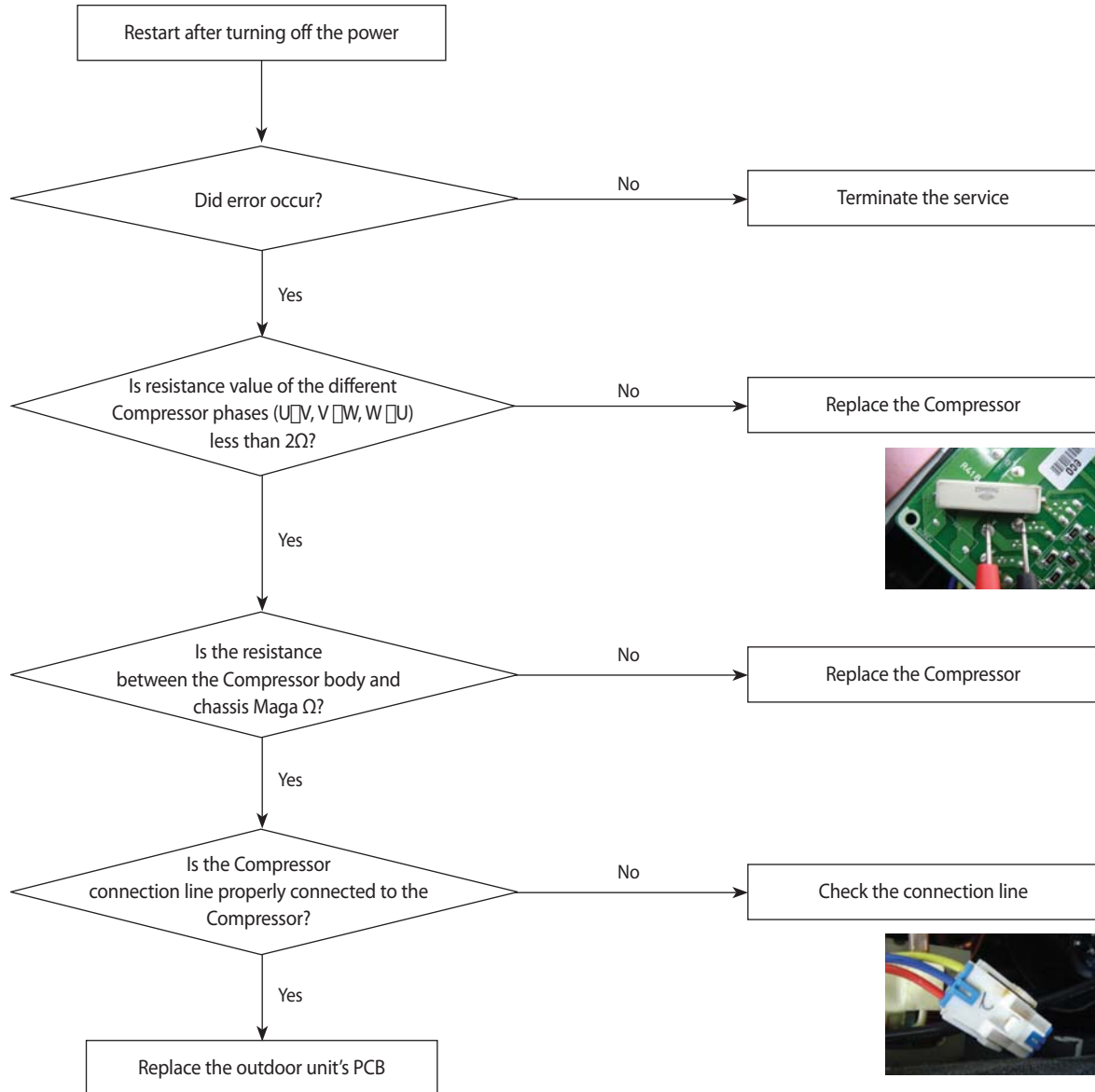


4-3-9 Compressor starting error, compressor locking error, compressor revolving error

1. Inspection items

- 1) Is the connection line between power and the compressor properly connected?
- 2) Is the resistance between different compressor phases normal?

2. Inspection order

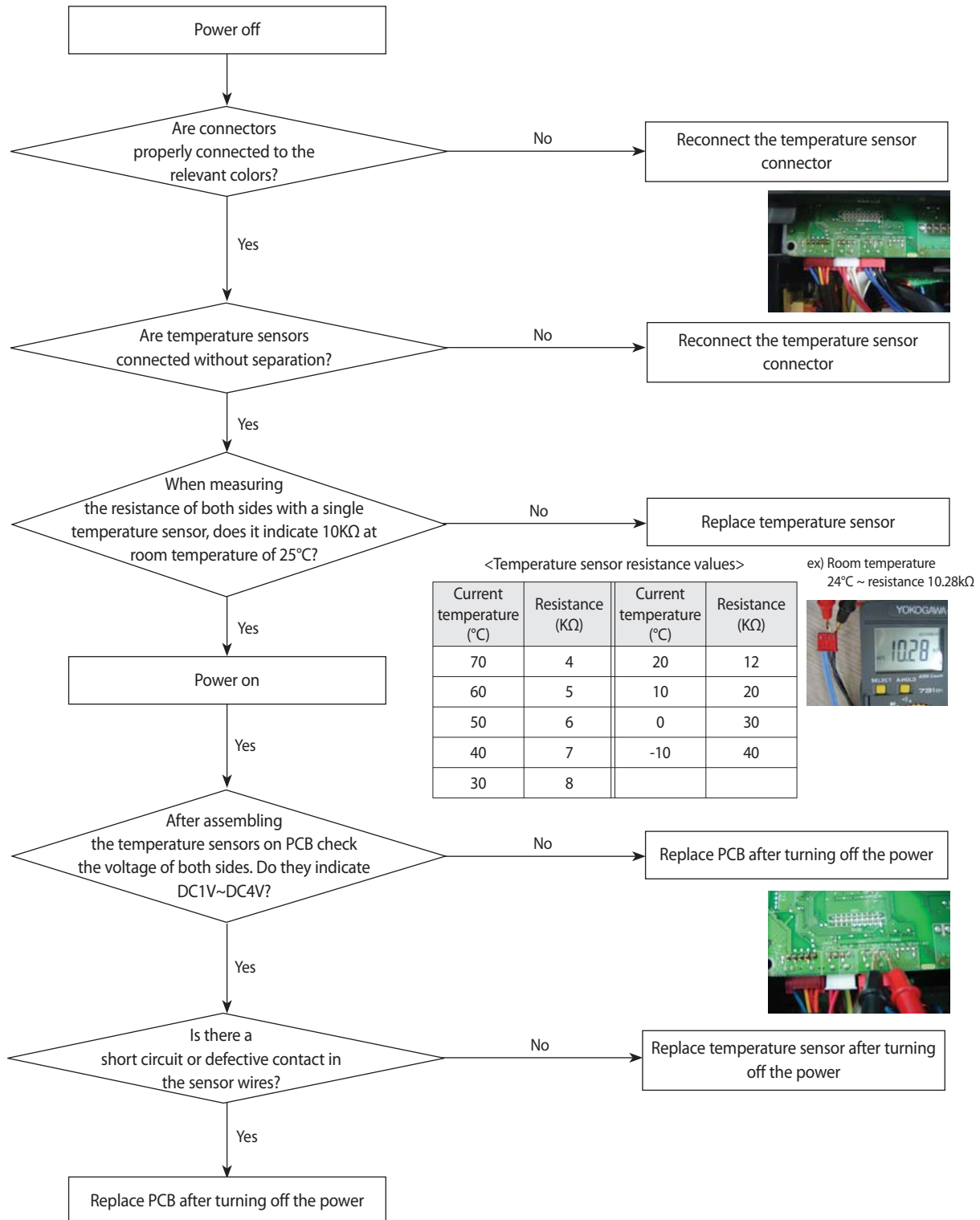


4-3-10 Outdoor temperature sensor error

1. Inspection items

- 1) Are the sensors connected properly?
- 2) Are the sensors located properly?
- 3) Do the resistance values of the sensors satisfy each temperature?

2. Inspection order

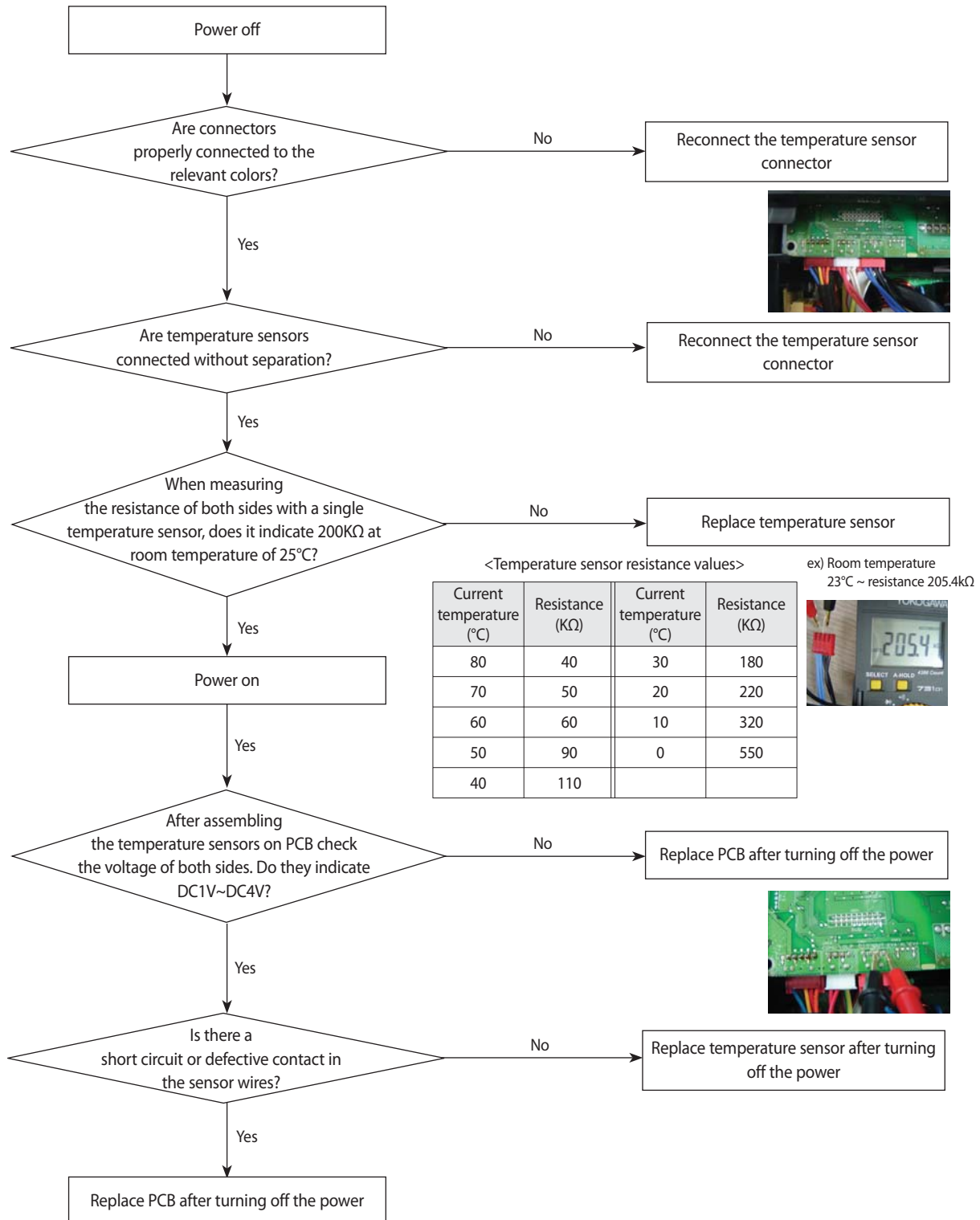


4-3-11 Emission temperature sensor error

1. Inspection items

- 1) Are the sensors connected properly?
- 2) Are the sensors located properly?
- 3) Do the resistance values of the sensors satisfy each temperature?

2. Inspection order

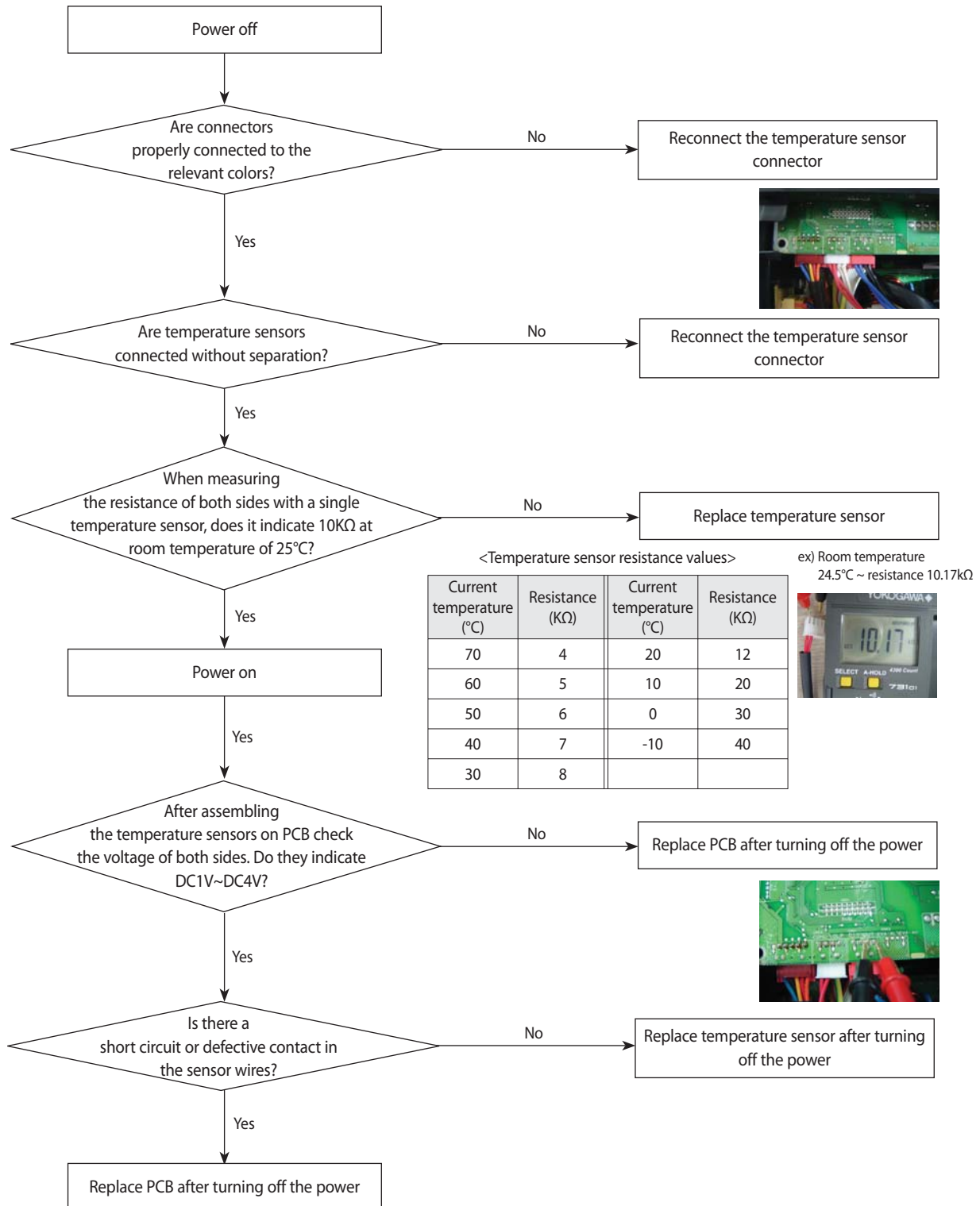


4-3-12 Cond temperature sensor error

1. Inspection items

- 1) Are the sensors connected properly?
- 2) Are the sensors located properly?
- 3) Do the resistance values of the sensors satisfy each temperature?

2. Inspection order

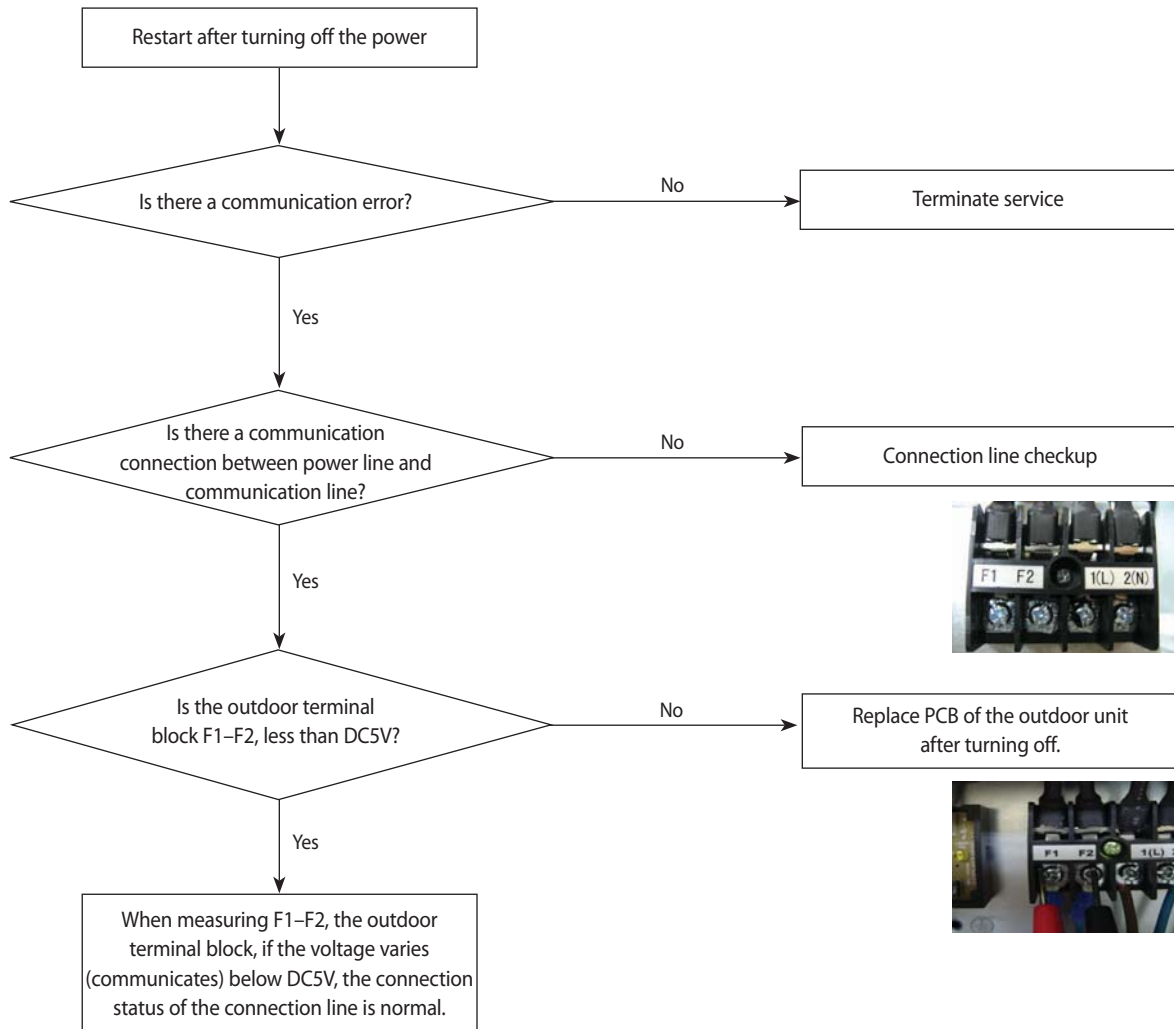


4-3-13 Communication error between indoor/outdoor units (1 min.)

1. Inspection items

- 1) Is the communication line between indoor and outdoor units connected properly?
- 2) Is there a communication connection between power line and communication line?

2. Inspection order

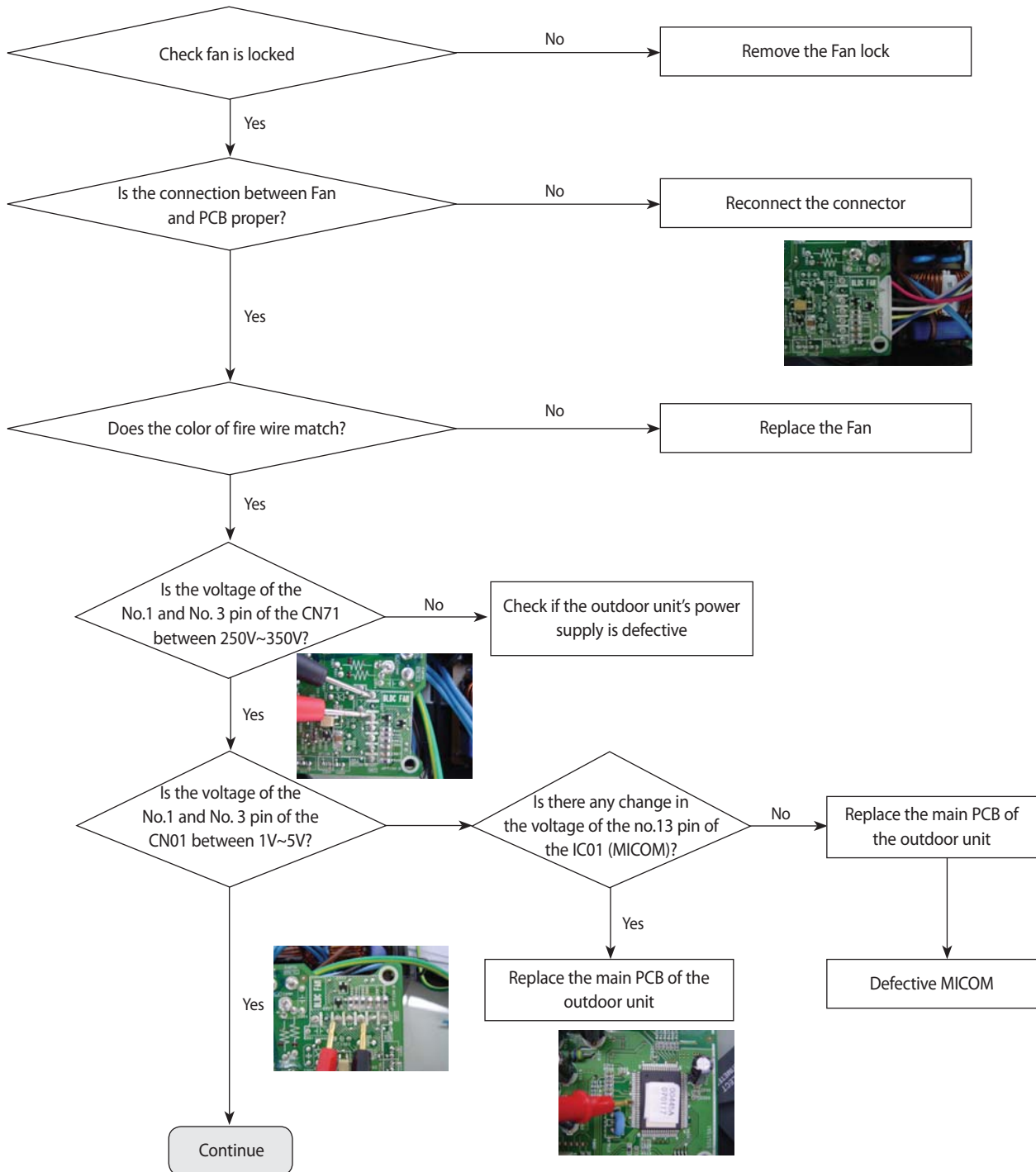


4-3-14 Outdoor fan error

1. Inspection items

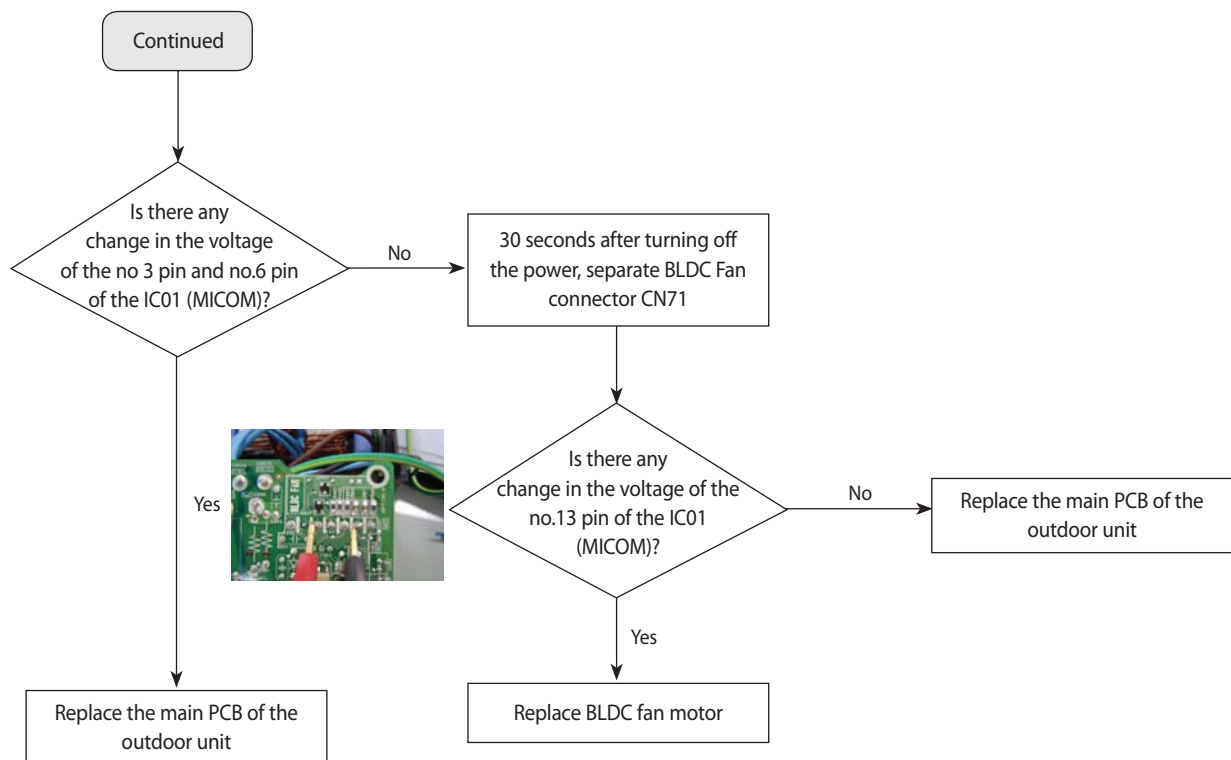
- 1) Is input power and power connected properly?
- 2) Is motor connection line properly connected to the PCB of the outdoor unit?
- 3) Is the fuse for indoor/outdoor unit connected?
- 4) Are there any obstacles around Motor or Propeller?
- 5) Is Motor Driver out of order?

2. Inspection order



(continued on the back)

Outdoor fan error (cont.)

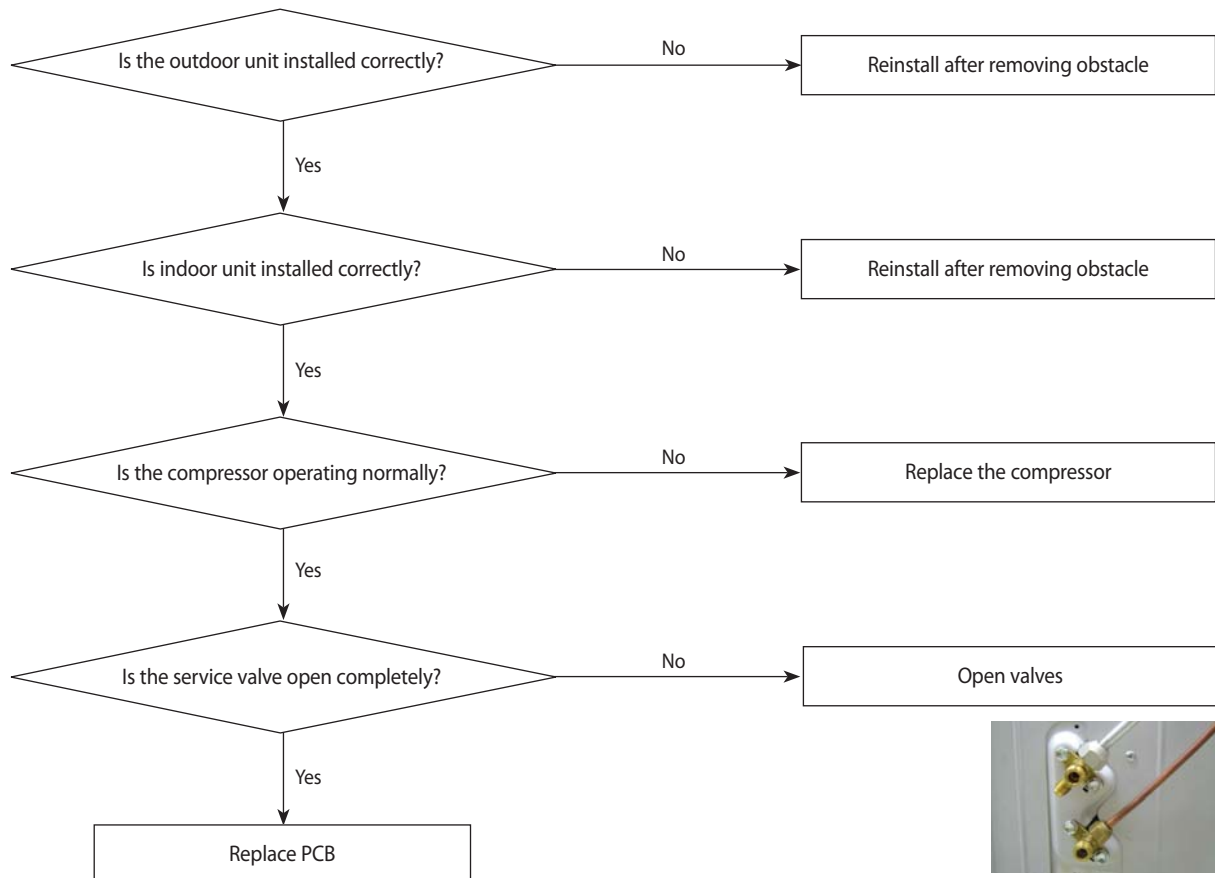


4-3-15 Discharge current error/ PFC over-current error

1. Inspection items

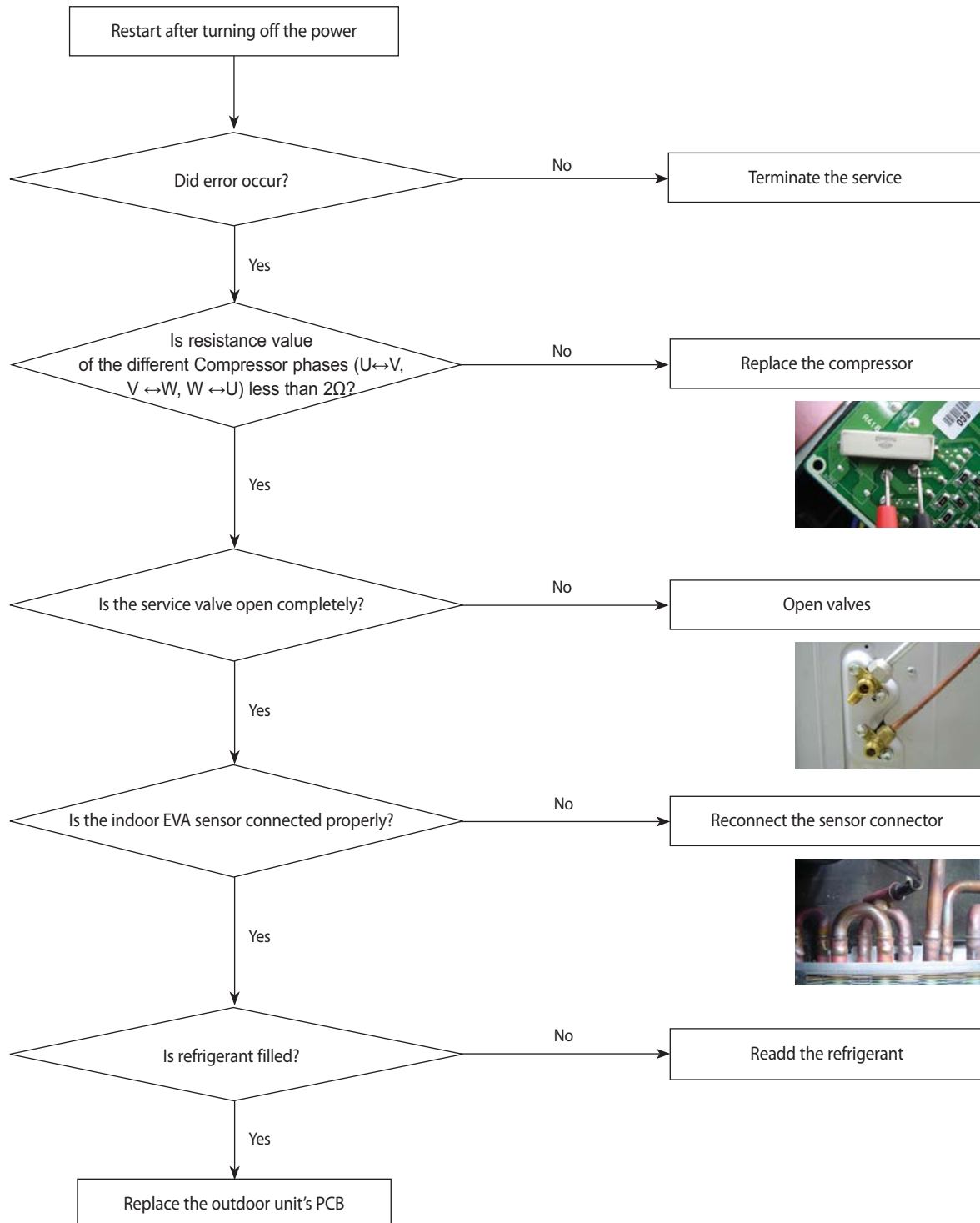
- 1) Is input power correct?
- 2) Is refrigerant filled?
- 3) Is the outdoor fan spinning correctly?
- 4) Are there any obstacles around indoor/outdoor units?

2. Inspection order



4-3-16 Gas leakage error

1. Inspection items
 - 1) Is refrigerant filled?
 - 2) Is the indoor EVA sensor connected properly?
2. Inspection order



4-3-17 Other

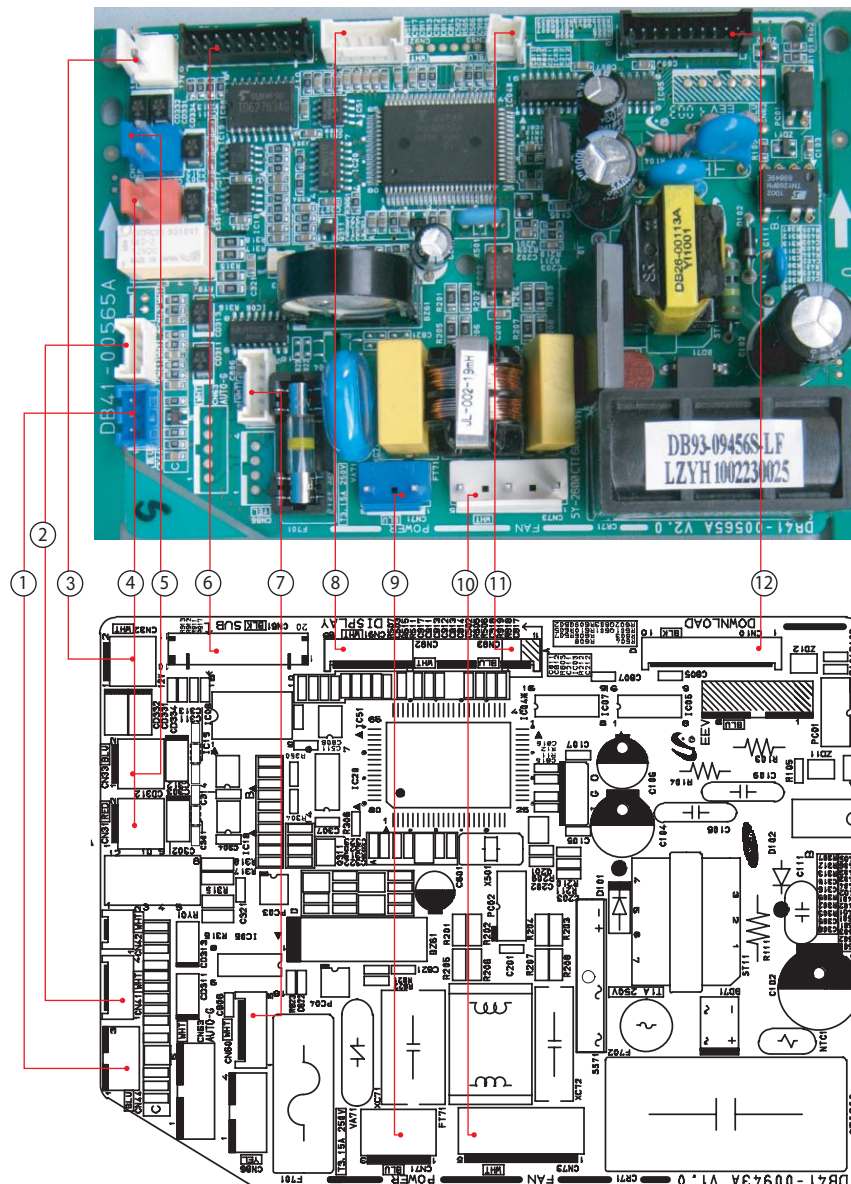
1. Current sensor error
Check PCB operates normally then replace the PCB
2. Compressor V limit error
Check the compressor operates normally then replace the compressor. If an error still occurs after the replacement of the compressor, replace the PCB
3. OTP error
Check PCB operates normally then replace the PCB
4. DC link Voltage Sensor Error
Check the connection between input power and the power is okay then replace the PCB
5. AC zero Crossing signal out error
Check the connection between input power and the power is okay then replace the PCB
6. Inconsistent volume
Check the option code of the indoor unit.

5. PCB Diagram and Parts List

5-1 PCB Diagram

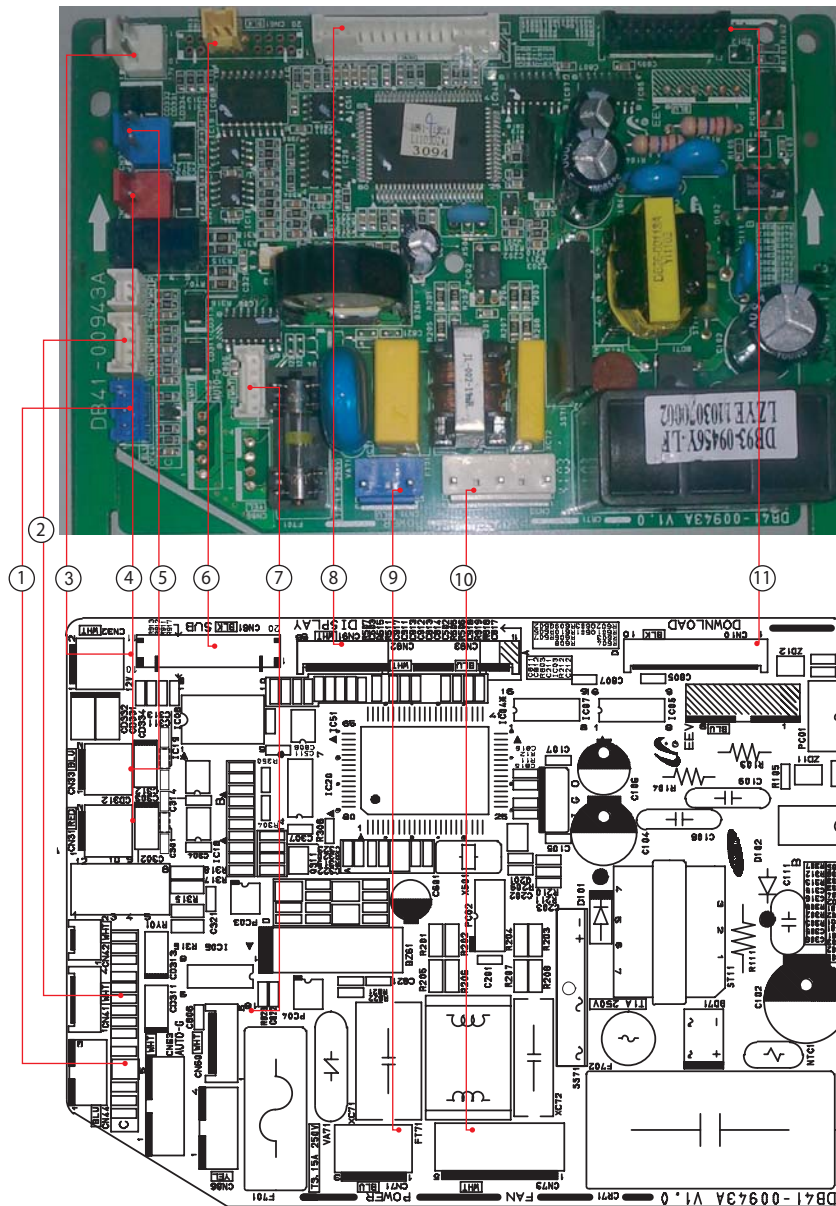
5-1-1 Indoor Unit

■MAIN PCB(*NDXEA)



NO.	DESCRIPTION	NO.	DESCRIPTION
①	FAN-MOTOR FEEDBACK	⑦	UP/DOWN STEP MOTOR
②	ROOM & PIPE-IN TEMPERATURE SENSOR	⑧	DISPLAY PBA
③	DC12V	⑨	POWER IN
④	COMMUNICATION 1	⑩	FAN MOTOR
⑤	COMMUNICATION 2	⑪	DISPLAY PBA
⑥	CHECK & CONTROL SIGNAL	⑫	MICOM DOWNLOAD

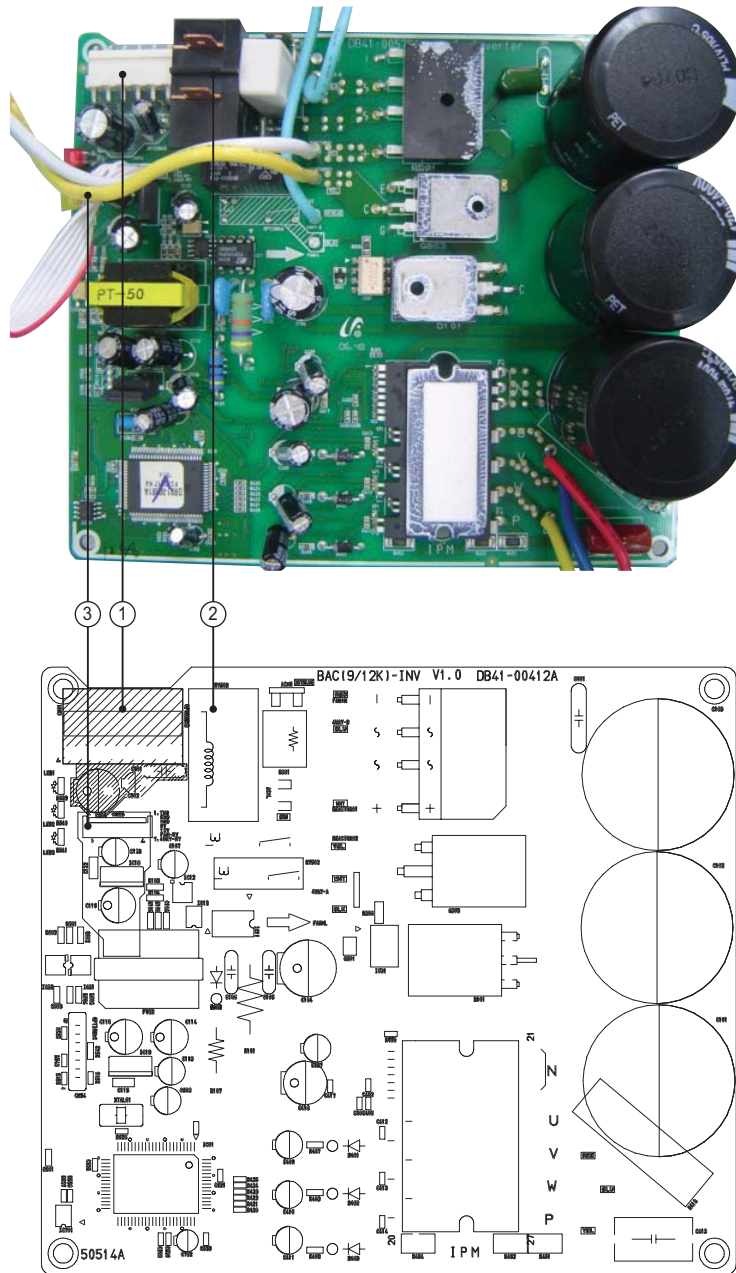
■ MAIN PCB(*NDXEA)



NO.	DESCRIPTION	NO.	DESCRIPTION
①	FAN-MOTOR FEEDBACK	⑦	UP/DOWN STEP MOTOR
②	ROOM & PIPE-IN TEMPERATURE SENSOR	⑧	DISPLAY PBA
③	DC12V	⑨	POWER IN
④	COMMUNICATION 1	⑩	FAN MOTOR
⑤	COMMUNICATION 2	⑪	MICOM DOWNLOAD
⑥	CHECK & CONTROL SIGNAL		

5-1-2 Outdoor Unit

■ INVERTER PCB(UH026/035EAV1)



① CN01 (7PIN/WHT) : BLDC Fan

- #1 : DC link voltage
- #2 : Not used
- #3 : GND
- #4 : 16V
- #5 : Detect FAN RPM
- #6 : FAN FG
- #7 : Detect fan counter rotation

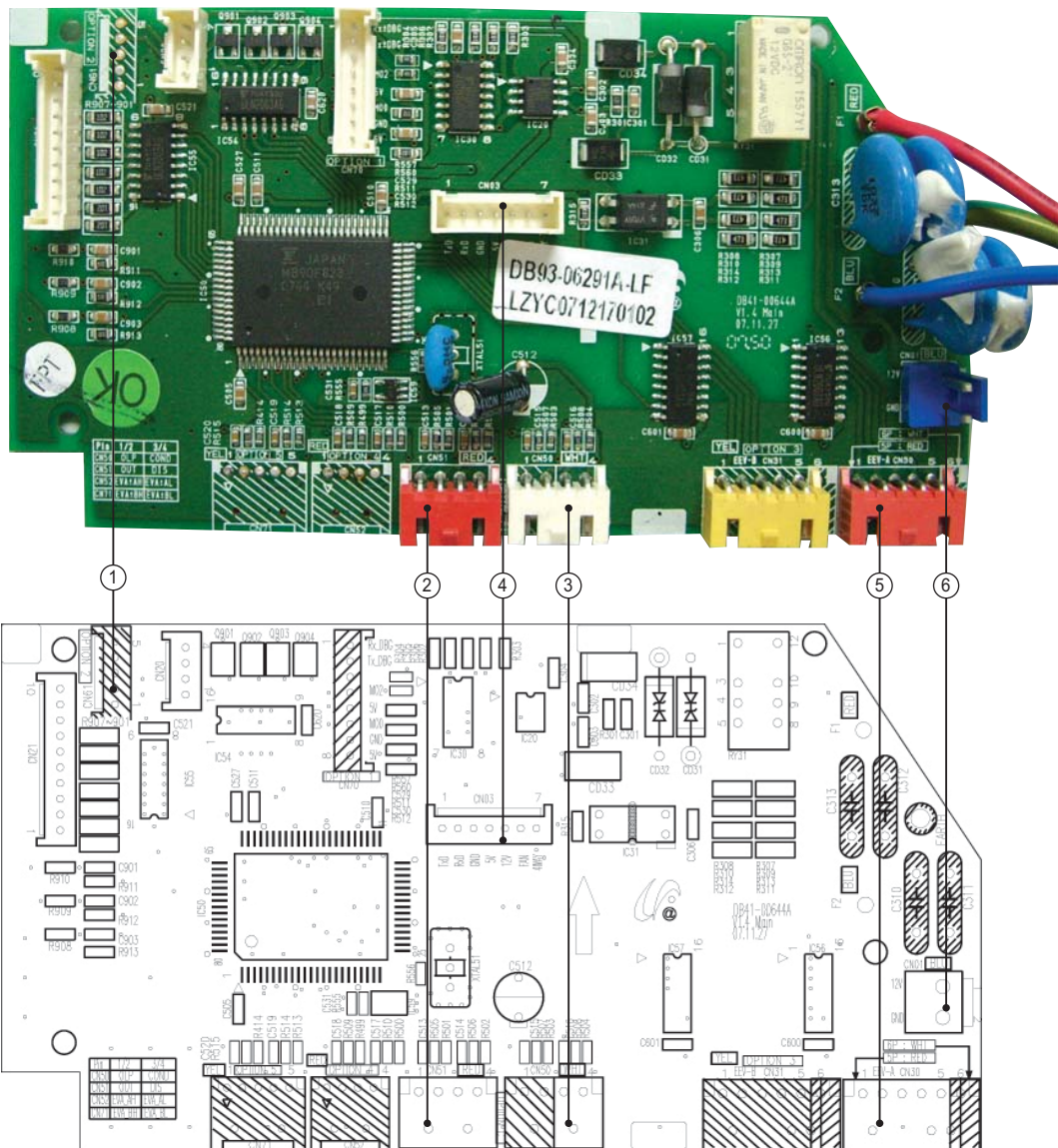
② RY503 : Power Relay

- # Upper Pin : Power Input
- # Lower pin : Send power to the circuit

③ CN55(7PIN/WHT) : Main PCB

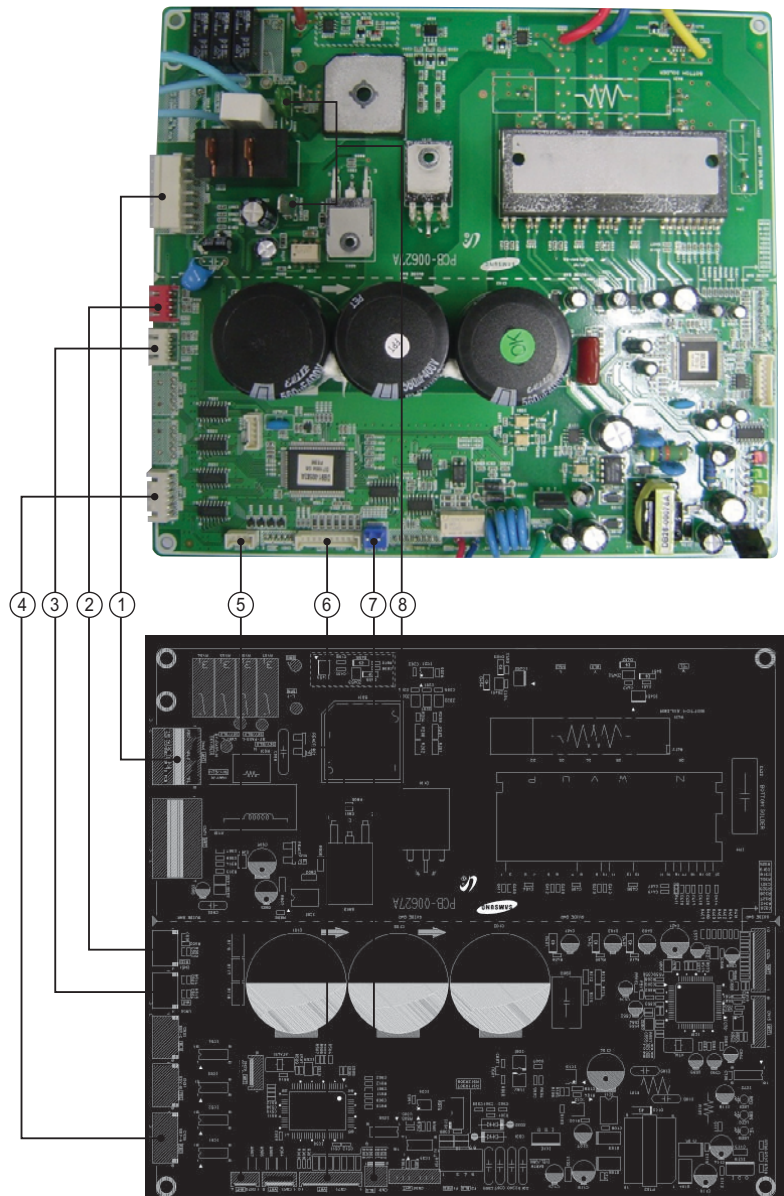
- #1 : TXD_Main
- #2 : RXD_Main
- #3 : GND
- #4 : DC5V
- #5 : 12V
- #6 : Fan relay
- #7 : 4 way relay

■ MAIN PCB(UH026/035EAV1)



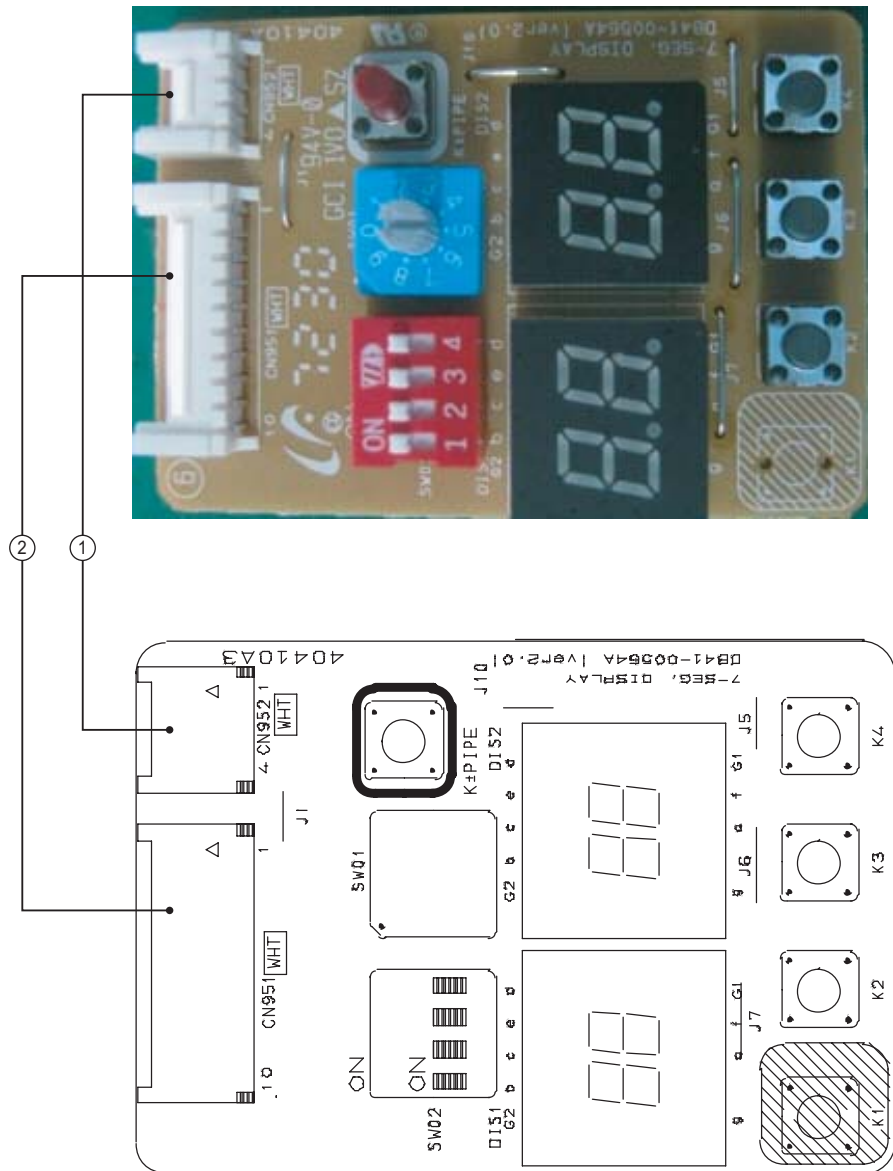
<p>① CN61(5PIN/WHT) : Display</p> <p>#1~2 : Display the operation status on LED #3 : Transmit the S/W inputs to MAIN #4~5 : Transmit signals to the display</p>	<p>② CN51(4PIN/RED) : Temperature Sensor</p> <p>#1 : Transmit detected temperature outside #3 : Transmit detected discharge temperature #2, 4 : GND</p>	<p>③ CN50(4PIN/WHT) : Temperature Sensor</p> <p>#1~2 : Not used #3 : Transmit detected COND temperature #4 : GND</p>
<p>④ CN03(7PIN/WHT) : Inverter PCB</p> <p>#1 : TXD_MAIN #2 : RXD_MAIN #3 : GND #4 : DC5V #5 : 12V #6 : Fan relay #7 : 4 way relay</p>	<p>⑤ CN30(6PIN/WHT) : EEV</p> <p>#1~4 : Teceive EEV motion signal #5~6 : 12V</p>	<p>⑥ CN01(2PIN/BLU) : Transmitter</p> <p>#1 : 12V #2 : GND</p>

■ MAIN PCB(UH052EAV1/UH070EAV2)



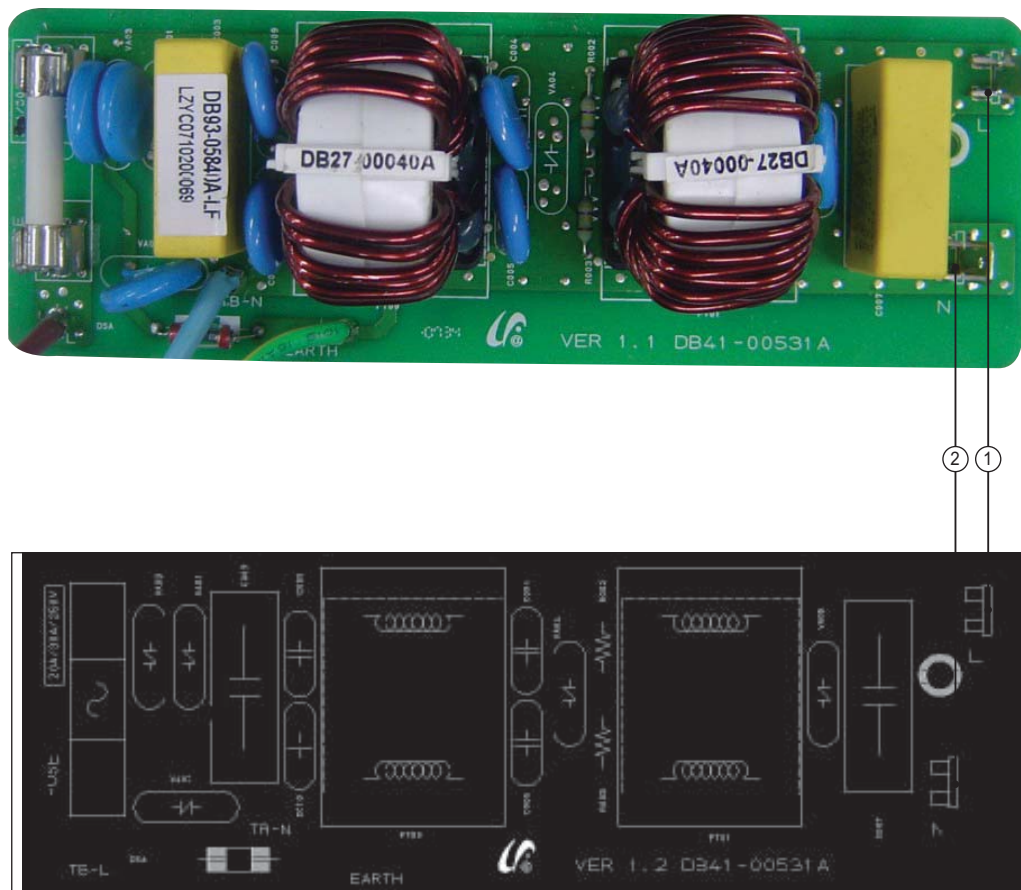
<p>① CN71(6P/WHT)-BLDC FAN #1 : DC LINK VOLTAGE #2 : NOT USED #3 : GND #4 : 16V #5 : DETECT FAN RPM #6 : FAN FG</p>	<p>② CN51(4P/RED)-SENSOR #1 : OUT TEMP. SENSOR SIGNAL #2, 4 : GND #3 : DISCHARGE TEMP. SENSOR SIGNAL</p>	<p>③ CN50(4P/WHT)-SENSOR #1 : OLP TEMP. SENSOR SIGNAL #2, 4 : GND #3 : TEMP TEMP. SENSOR SIGNAL</p>
<p>④ CN30(6P/WHT)-EEV</p>	<p>⑤ CN20(4P/WHT)-DISPLAY #1~4 : RECEIVE SIGNAL FROM THE MAIN</p>	<p>⑥ CN21(10P/WHT)-DISPLAY #1~7 : 7-SEGMENT SIGNAL #8~10 : RECEIVE KEY OPERATION SIGNALS FROM THE MAIN</p>
<p>⑦ CN01(2PIN/BLU)-12V #1 : 12V #2 : GND</p>	<p>⑧ REACTOR1,2(TAB)-REACTOR</p>	

■ Display PCB(UH026/35/52EAV1&UH070EAV2)



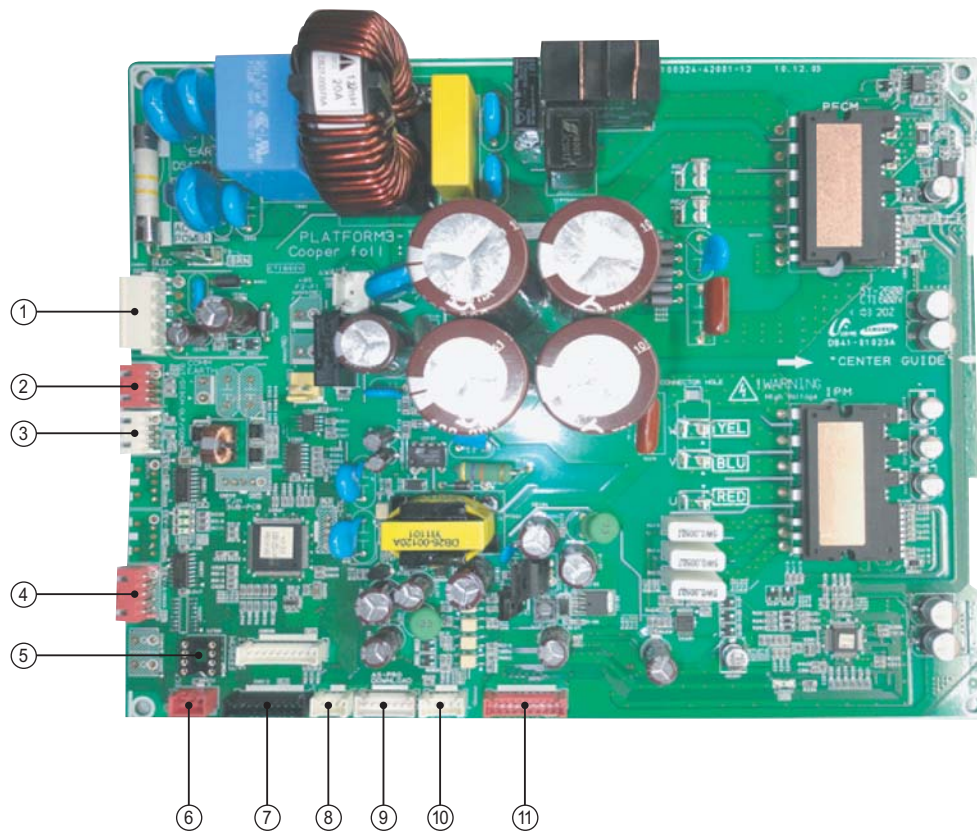
<p>① CN952(4PIN/WHT) : Display #1~4 : Receive signals from the Main</p>	<p>② CN951(10PIN/WHT) : Display #1~7 : 7-SEGMENT signal #8~10 : Receive KEY operation signals from the Main</p>
---	--

■ EMI(UH026/35/52EAV1&UH070EAV2)



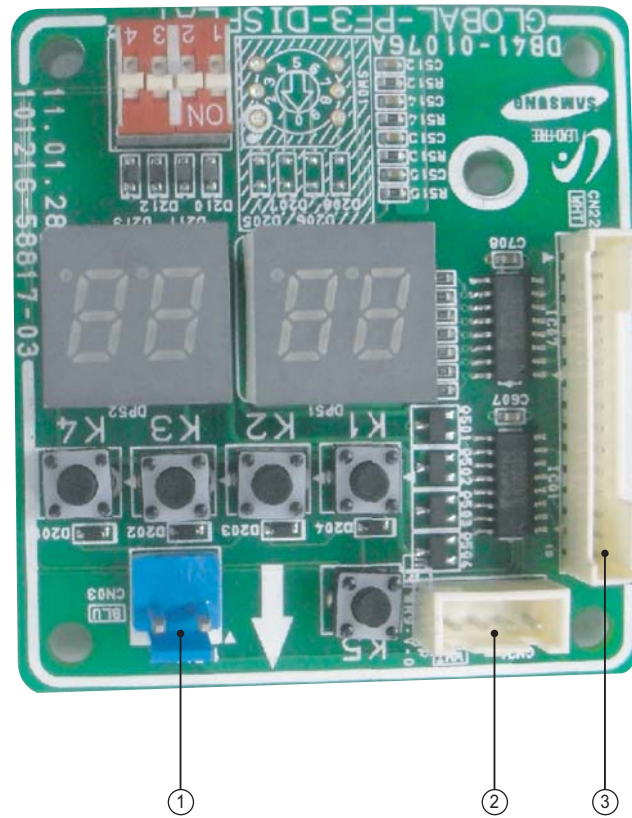
<p>① L(TAB)-POWER AC(L)</p>	<p>② N(TAB)-POWER AC(N)</p>
---------------------------------	---------------------------------

OUTDOOR MAIN PCB(*DHXEA)



①	OLP /COND THERMISTOR CONNECTOR	SMAW250A-04 WHT
②	OUT/DISCHARGE THERMISTOR CONNECTOR	SMAW250A-04 RE
③	BLDC-FAN CONNETCOR	YAN396-06V WHT
④	EEV-A CONNECTOR	SMAW250A-05 RED
⑤	DISPLAY CONNECTOR	SMW200-10 NTR
⑥	DISPLAY CONNECTOR	SMAW250A-03 RED
⑦	PC DOWNLOADCONNECTOR	SMW200-10 BLK
⑧	S N E T CONNECTOR	SMW200-04 NTR
⑨	AS-PRO DOWNLOAD CONNECTOR	SMAW200A-07 WHT
⑩	DISPLAY CONNE CTORS	MW200-05 NTR
⑪	DOWNLOAD-INV CONNECTOR S	MW200-10 RED

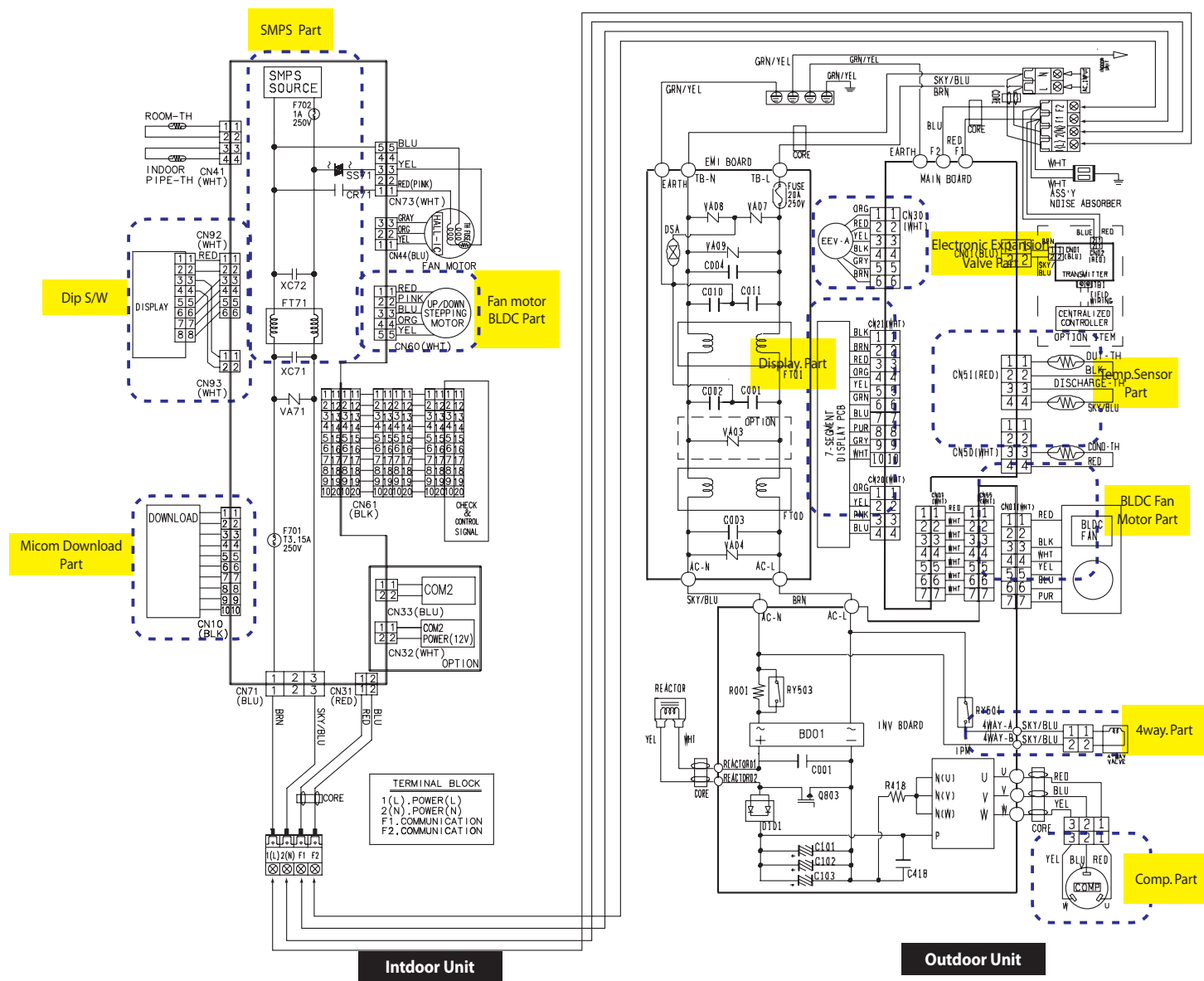
■ OUTDOOR SUB PCB(*DHXEA)



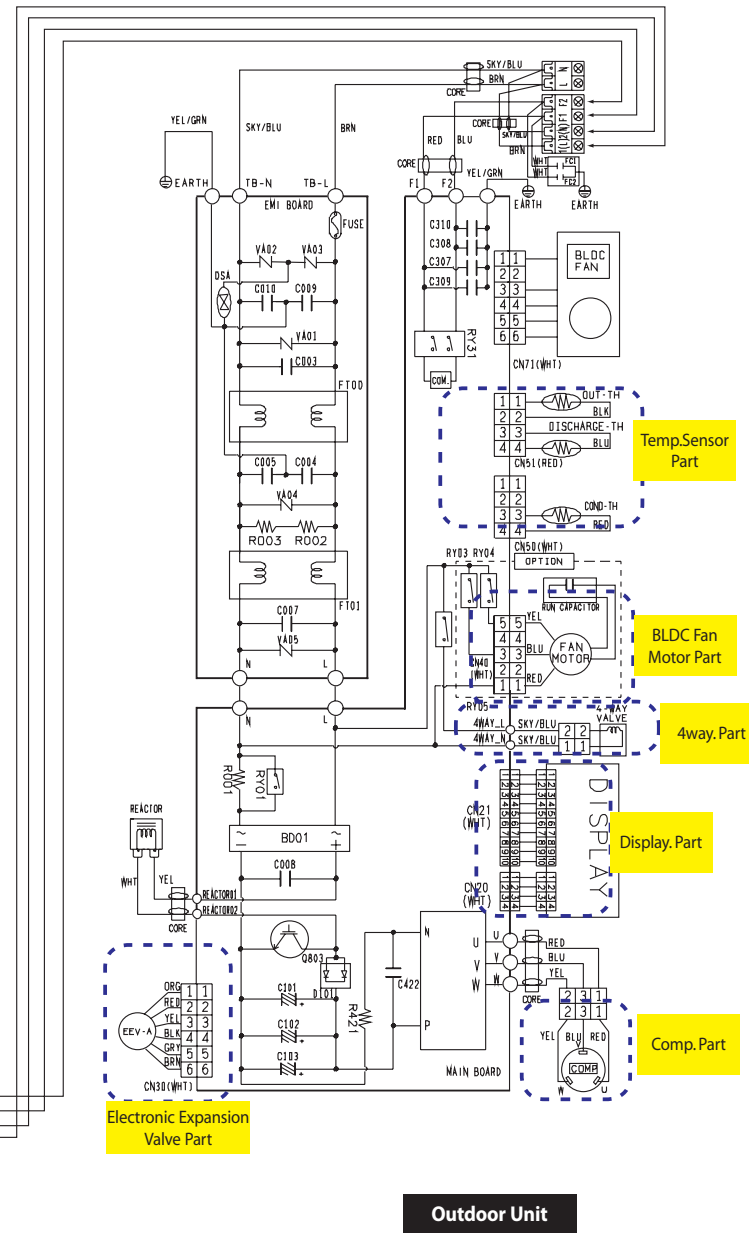
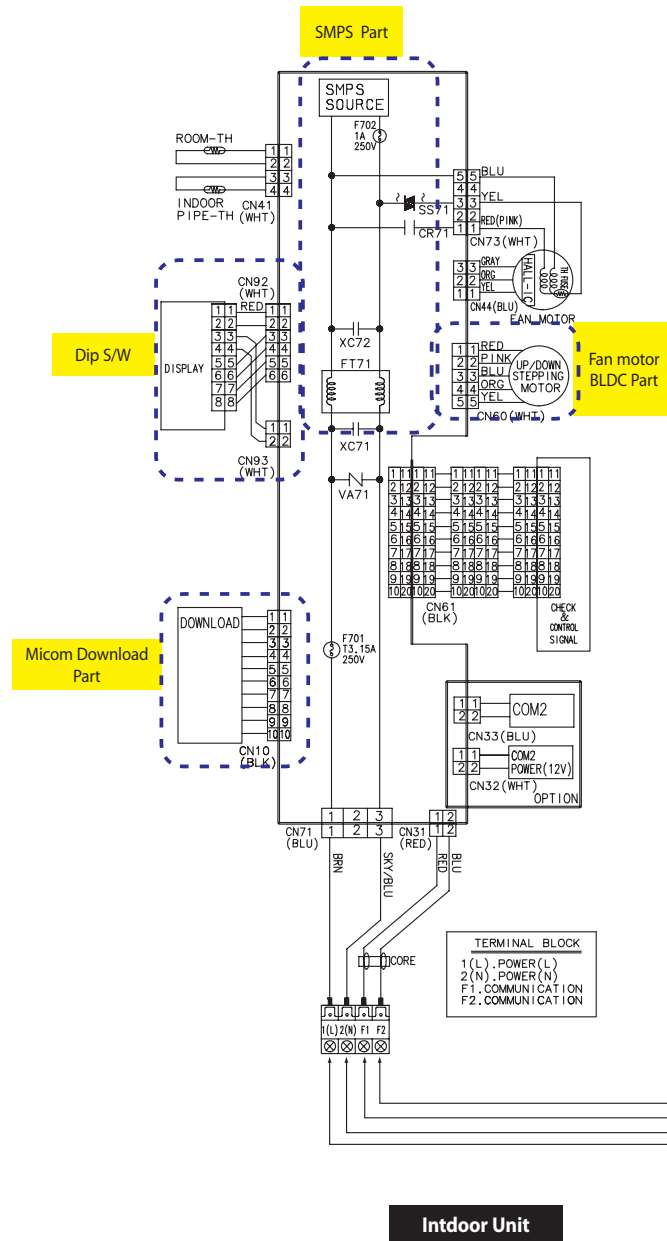
①	12V POWER CONNECTOR	YW396-02V BLU
②	MAIN -SUB SIGNAL CONNECTOT	SMW250-04 WHT
③	MAIN -SUB SIGNAL CONNECTOT	SMW200-15NTR

6. Wiring Diagram

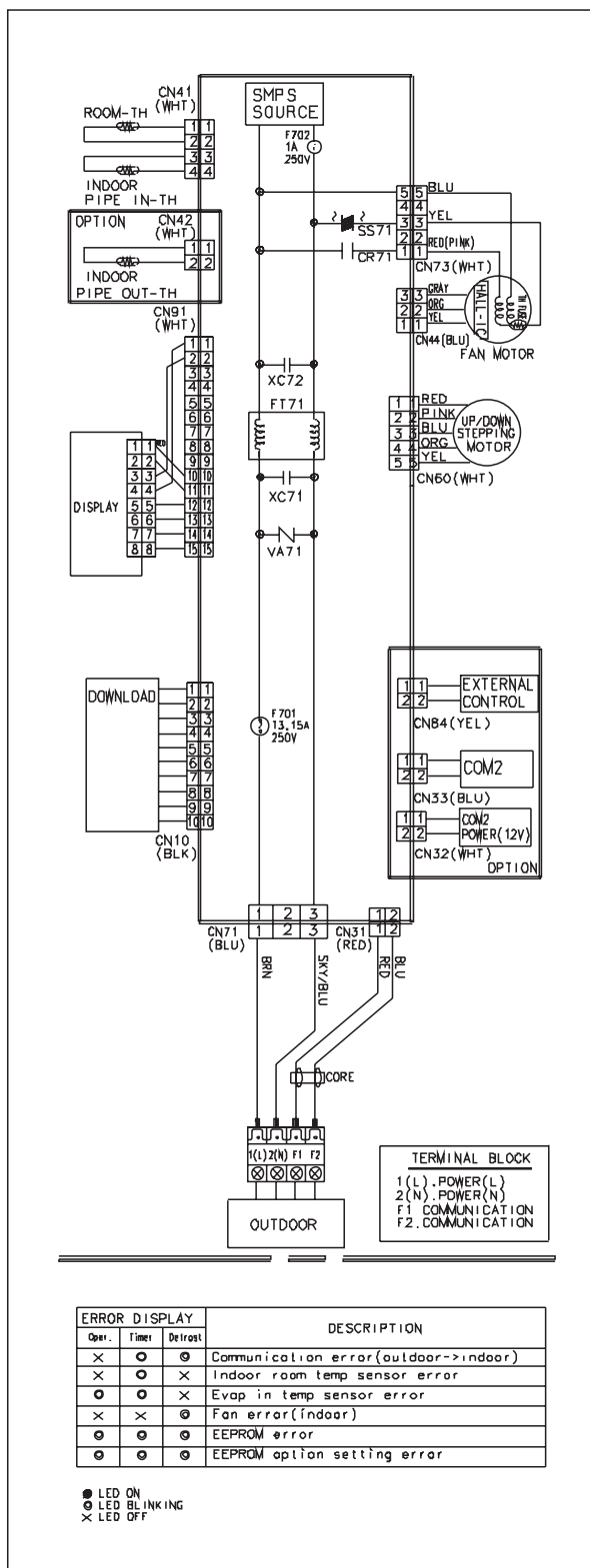
■ ****26/35****



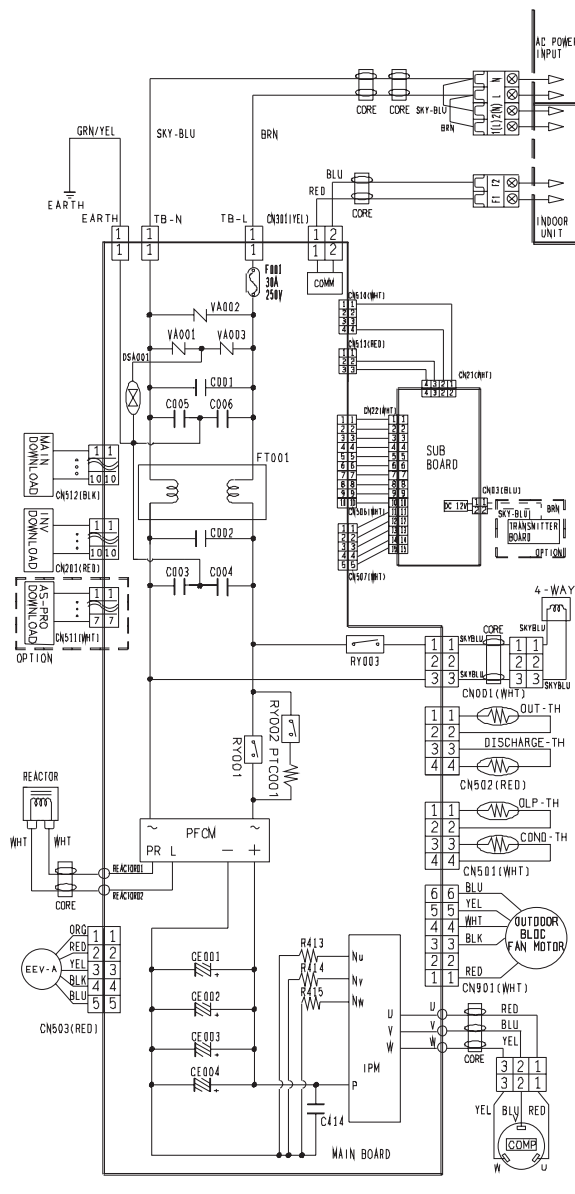
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■ Indoor Unit (***)NDXEA)

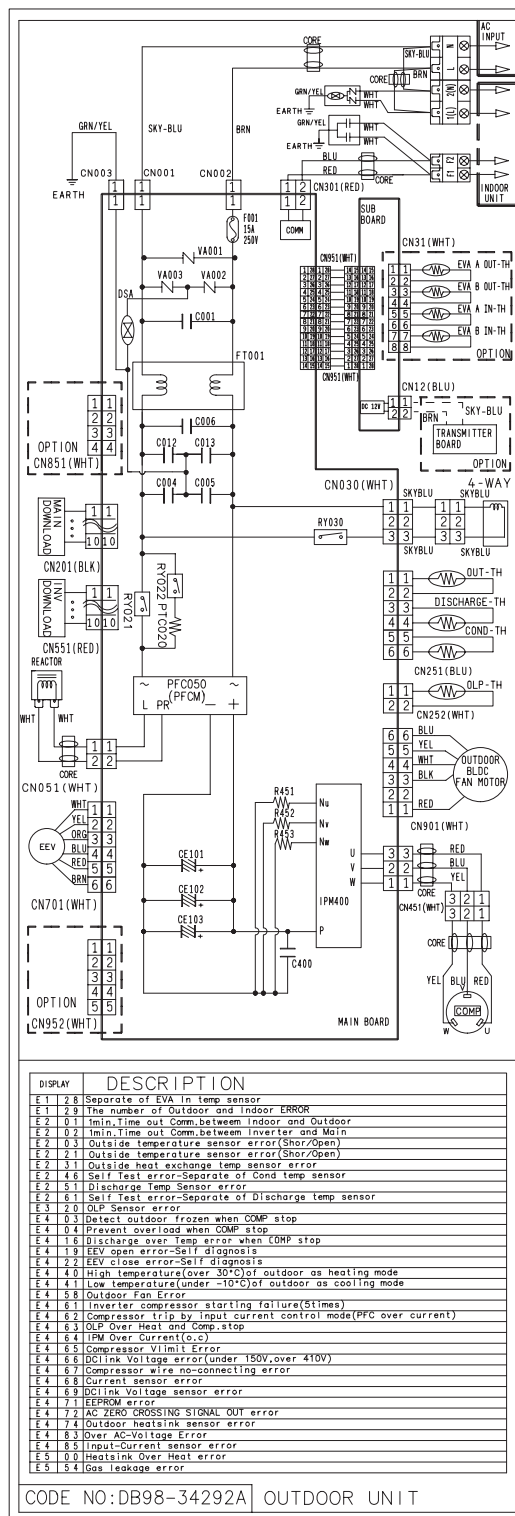


■ Outdoor Unit (RC071DHXEA)



DISPLAY	DESCRIPTION
E1 2 8	Indoor unit sensor error-Evaporator pipe in sensor - Self diagnosis
E1 2 9	Indoor unit sensor error-Evaporator pipe out sensor - Self diagnosis
E2 0 1	The number of indoor unit mismatched
E2 0 2	Communication error between the outdoor and indoor unit
E2 0 3	Outdoor communication error between main micom and inverter micom
E2 2 1	Outside temperature sensor error(Shor/Open)
E2 3 1	Outdoor condenser temperature sensor error(Shor/Open)
E2 4 6	Outdoor condenser temperature sensor error - Self diagnosis
E2 5 1	Compressor discharge temperature sensor error
E2 6 1	Compressor discharge sensor detached-Self diagnosis
E3 2 0	Compressor OLP sensor error(Shor/Open)
E4 0 1	Outdoor unit freezing(Compressor stop)
E4 0 4	Outdoor unit overload-Safely control(Compressor stop)
E4 1 6	Outdoor unit high discharge temperature-Safely control(Compressor stop)
E4 1 9	EEV open error-Self diagnosis
E4 2 2	EEV close error-Self diagnosis
E4 4 0	High temperature(over 30°C)of outdoor as heating mode
E4 4 1	Low temperature(under -10°C)of outdoor as cooling mode
E4 5 8	Outdoor Fan Error
E4 6 1	Inverter compressor starting failure(Stimes)
E4 6 2	Compressor trip by input current control mode(PFC over current)
E4 6 3	Compressor trip by OLP temperature control mode
E4 6 4	Over current
E4 6 5	Compressor Vlimit Error
E4 6 6	DClink Voltage error(under 150V,over 410V)
E4 6 7	Compressor wire no-connecting error
E4 6 8	Current sensor error
E4 6 9	DClink Voltage sensor error
E4 7 0	Outdoor eeprom no data error
E4 7 2	Inverter micom zero-crossing error
E4 7 4	Outdoor heatsink sensor error
E4 8 3	Over AC-Voltage Error
E4 8 5	Input-Current sensor error
E5 0 0	Compressor trip by IMP over heater current control mode
E5 5 4	Gas leakage error

Outdoor Unit : RC026DHXEA/RC035DHXEA/ RC052DHXEA

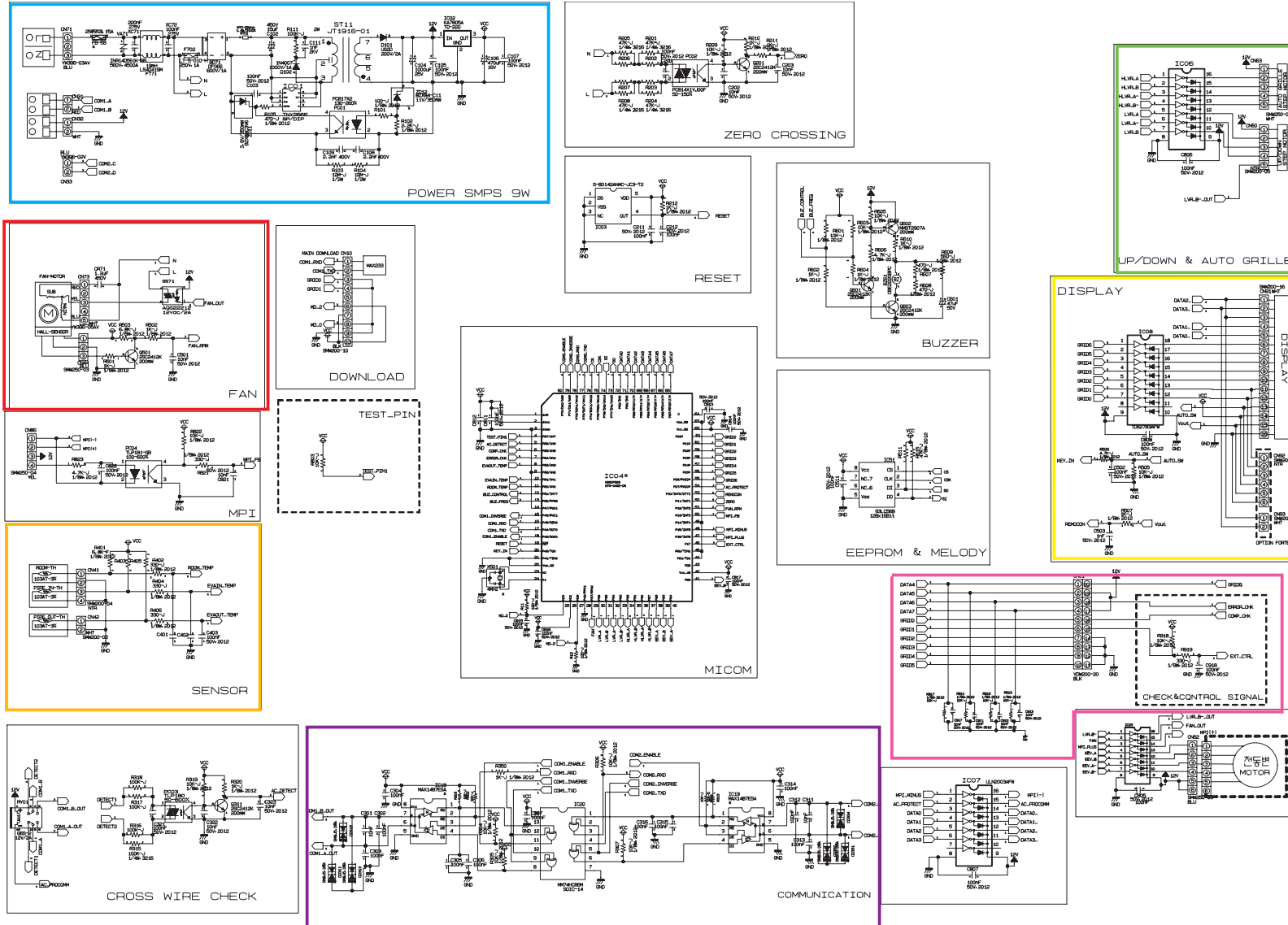


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7. Schematic Diagram

7-1 Indoor Unit

7-1-1 MAIN PCB

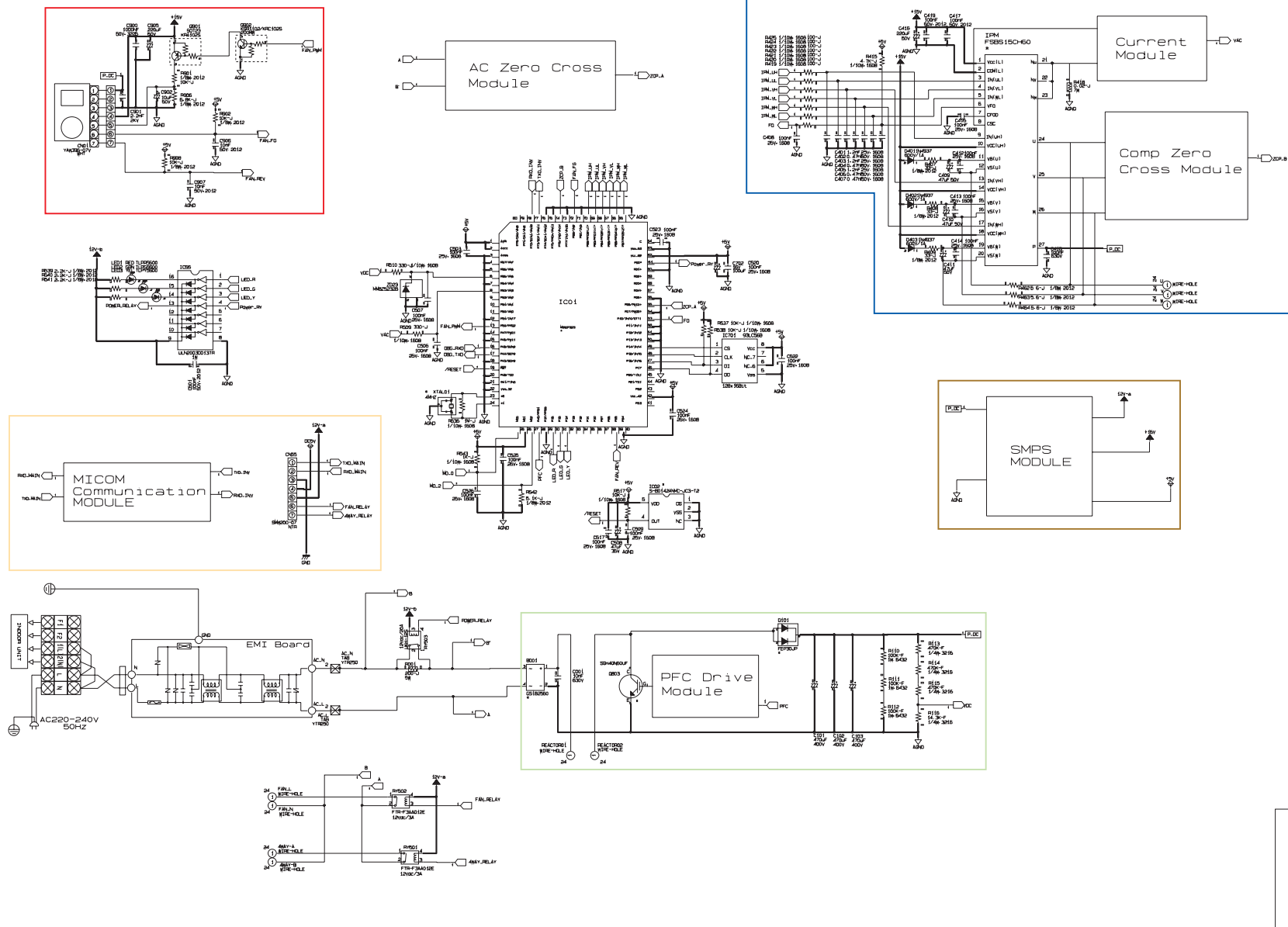


- POWER SMPS PART
- STEP MOTOR CONTROL PART
- ROOM & PIPE IN TEMP SENSOR PART
- COMMUNICATION PART
- UP/DOWN&AUTO AGRILLE PART
- DISPLAY PART
- CHECK & CONTROL SIGNAL PART

7-2 Outdoor Unit

7-2-1 INVERTER PCB

■ UH026/035EAV1



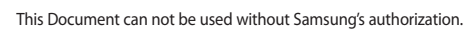
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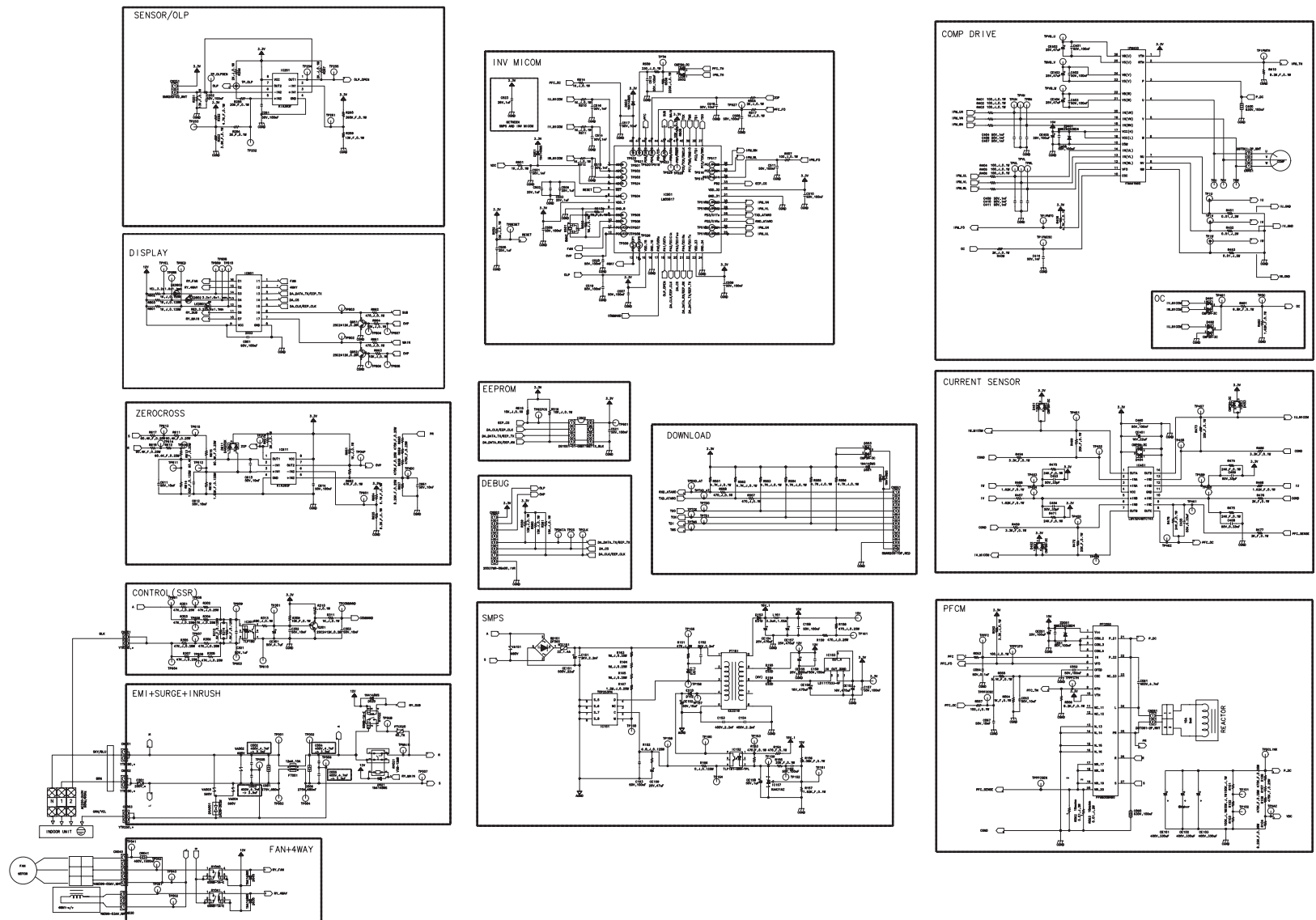
■ INVERTER (cont.)

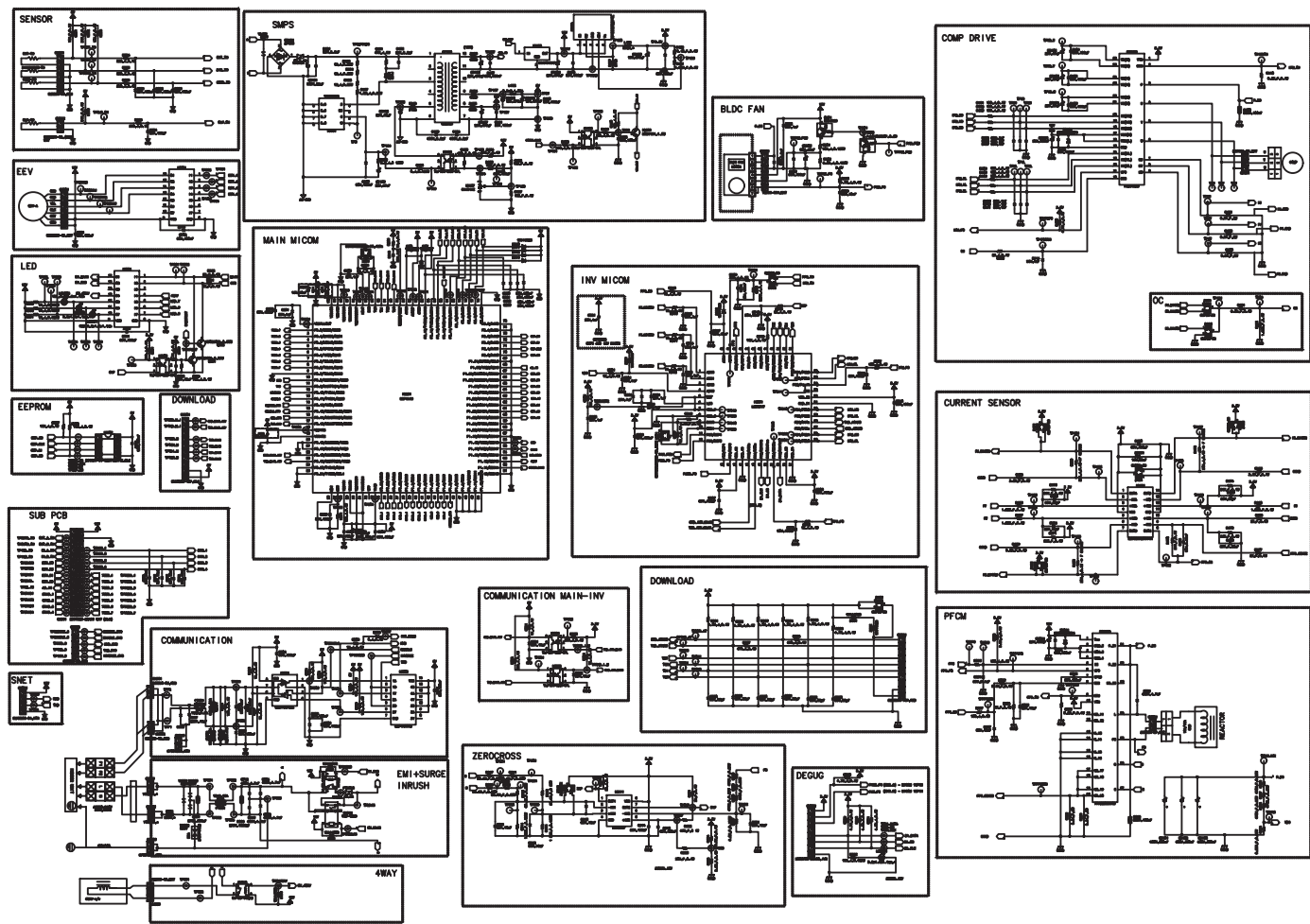


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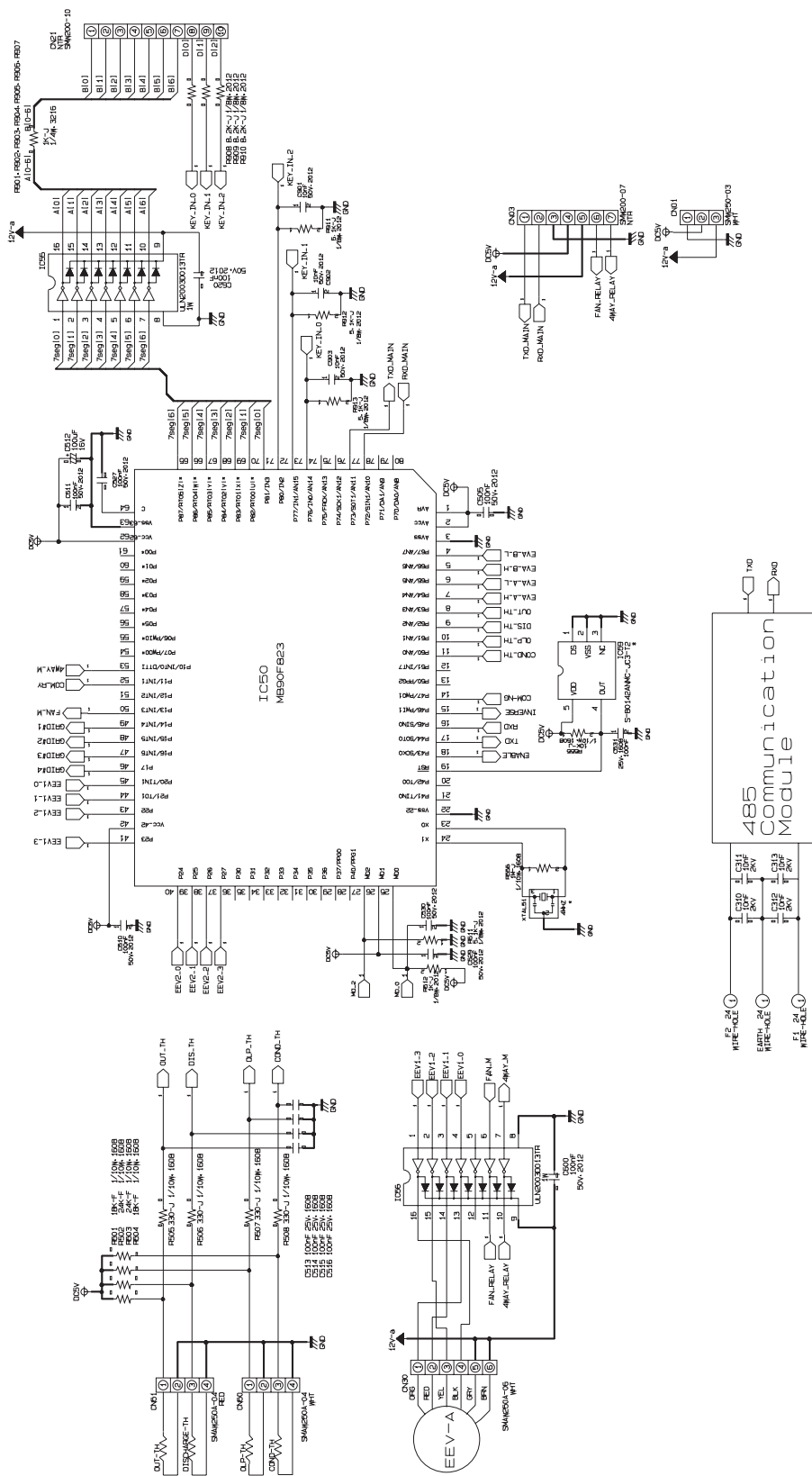


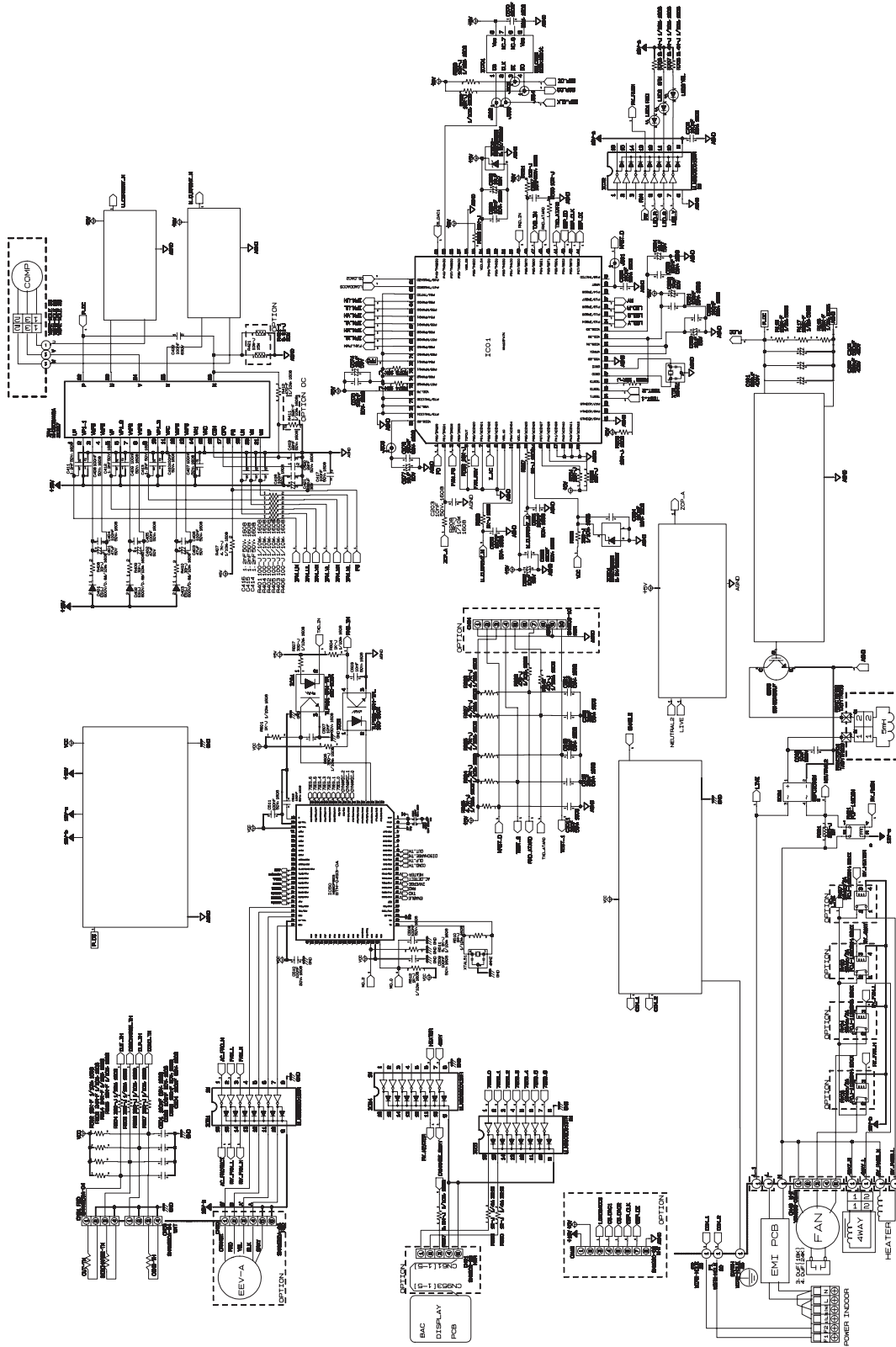


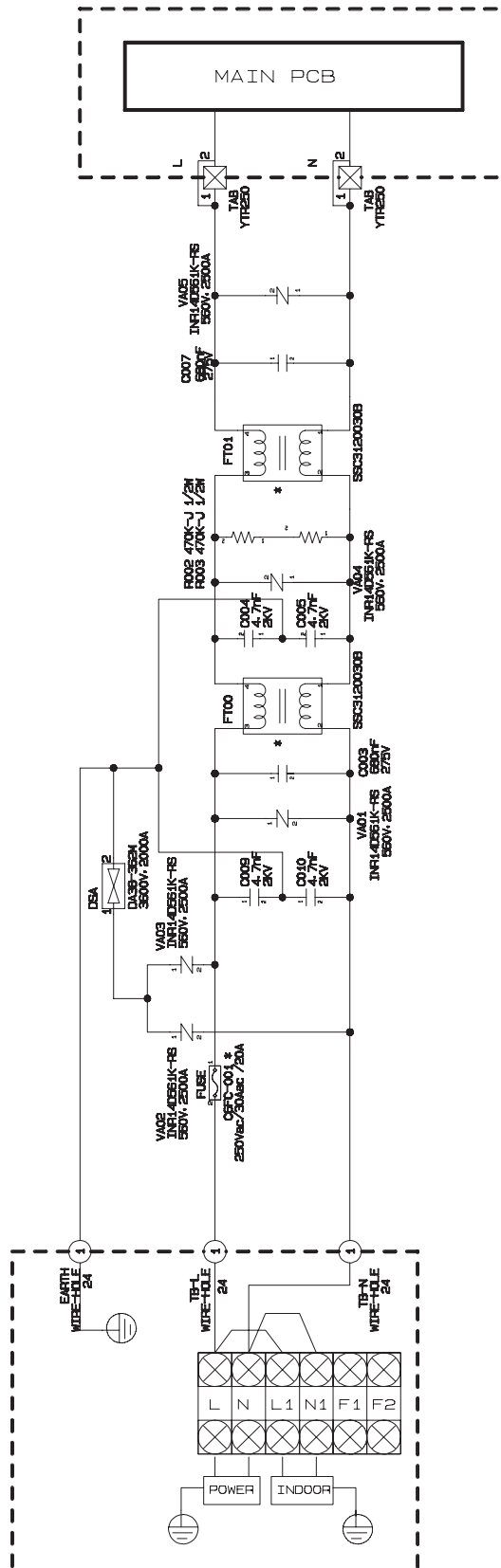




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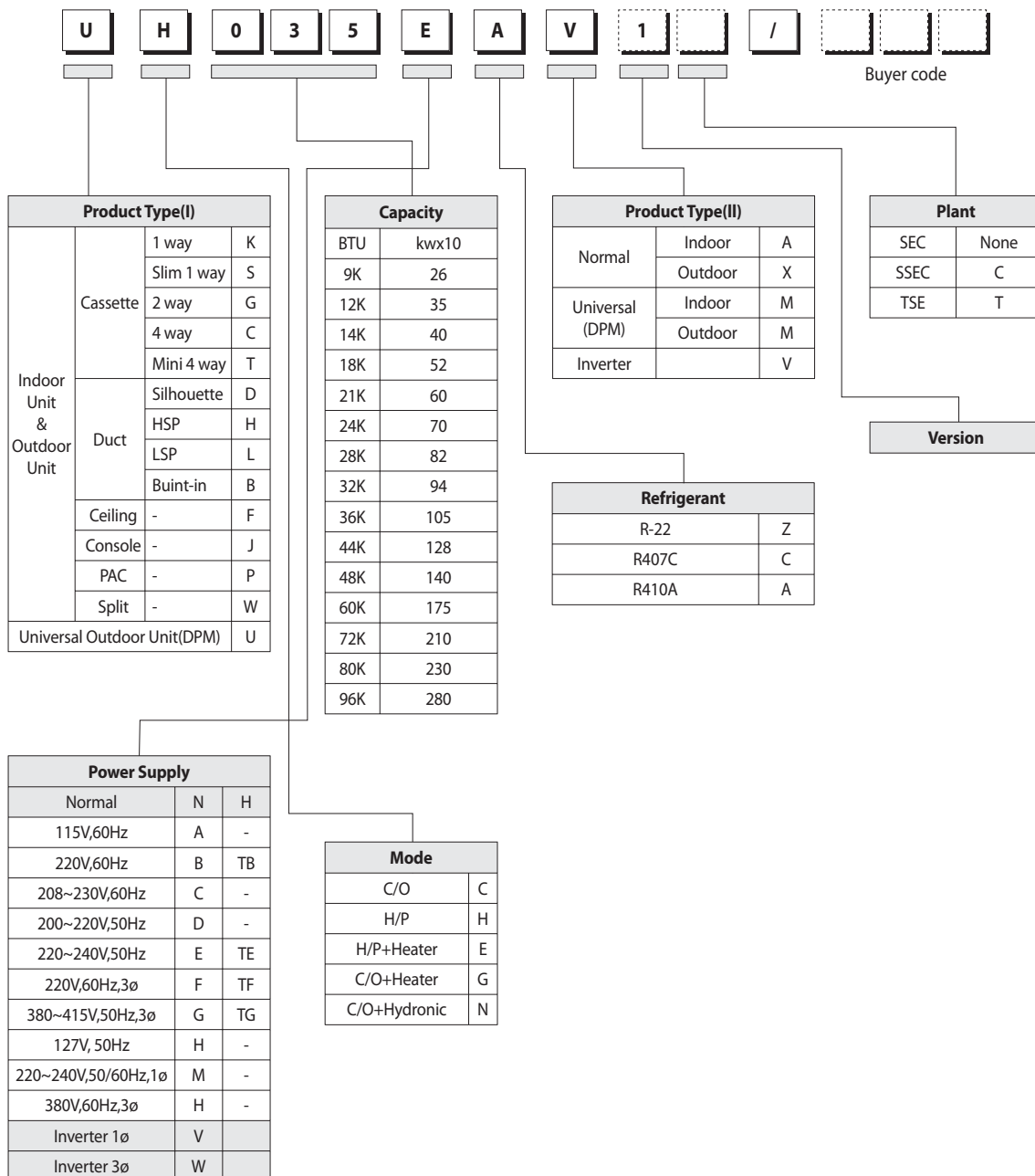


8. Reference Sheet

8-1 Index for Model Name

* Project model code for New Built-in Product.

Model Code



Outdoor Unit Model Code

RC	140	D		H	X	E	A	/	-	-	-
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)				Buyer code

(1) Product Type		
R	D	DVM
	J	FJM
	C	SINGLE(CAC)

(2) Capacity
HP / KW / BTU / TON

(3) Chassis	
P	Inverter RPM
D	Inverter DLX
S	Inverter DLX
F	Constant rate (value)
X	Constant rate (tender)
Z	Flagship
T	Tower (Top Discharge)
U	Ice box

(4) Separator		
1	1WAY	CST
2	2WAY	
M	MINI 4 WAY	
4	4WAY	
H	High Static Pressure	DUCT
S	Middle Static Pressure	
L	Low Static Pressure	
C	CEILING	CONV
J	CONSOLE	
F	PAC	
P	FAC	

(5) MODE	
C	C/O
H	H/P
E	H/P+HEATER
G	C/O+HEATER
T	TROPICAL C/O
Q	TROPICAL H/P

(6) Refrigerant	
R22	R
R410A	X

(7) Power Supply	
Normal	N
115V,60Hz	A
220V,60Hz	B
208~230V,60Hz	C
200~220V,50Hz	D
220~240V,50Hz	E
208~230V,60Hz,3Φ	F
380~415V,50Hz,3Φ	G
127V, 50Hz	M
380V/60Hz,3Φ	H
460V,60Hz,3Φ	J

(8) VERSION	
1~9	KOREAN
A~Z	EXPORT

Indoor Unit Model Code

NS	071	L	D	X	E	A	/	-	-	-
(1)	(2)	(3)	(4)	(5)	(6)	(7)				Buyer code

(1) Product Type		
N	D	DVM
	J	FJM
	M	MULTI
	S	SINGLE(CAC)
	H	Hydro-Box

(2) Capacity
HP / KW / BTU / TON

(3)Chassis		
1	1WAY	CST
2	2WAY	
M	MINI 4 WAY	
4	4WAY	
H	High Static Pressure	DUCT
S	Middle Static Pressure	
L	Low Static Pressure	
C	CEILING	CONV
J	CONSOLE	
F	PAC	
P	FAC	
B	Mont Blabc	RAC
V	VIVACE	
Q	NEO-FORTE(EEV)	
N	NEO-FORTE	

(4) MODE	
C	C/O
H	H/P
T	Tender
V	Value

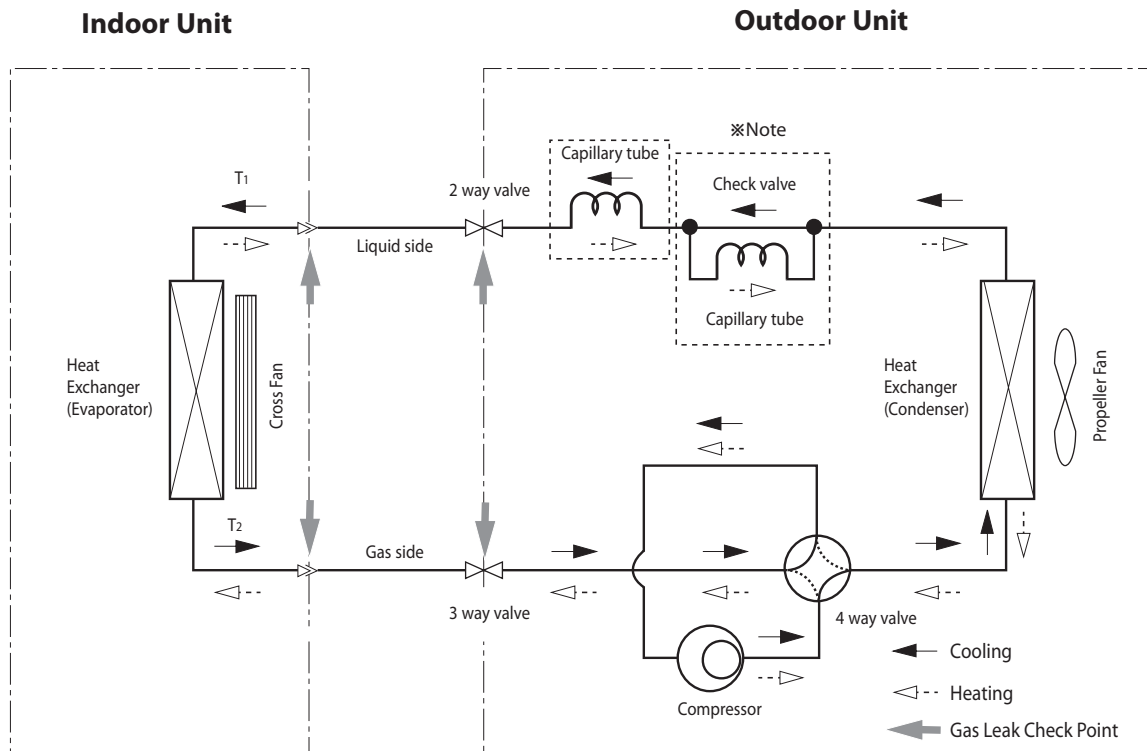
When grade classification is necessary	
Z	H/P (Flagship)
P	H/P (Premium)
D	H/P (Deluxe)
S	H/P (Standard)
CP	H/P (Premium)

(5) Refrigerant	
R22	R
R410A	X

(6) Power Supply	
Normal	N
115V,60Hz	A
220V,60Hz	B
208~230V,60Hz	C
200~220V,50Hz	D
220~240V,50Hz	E
208~230V,60Hz,3Φ	F
380~415V,50Hz,3Φ	G
127V, 50Hz	M
380V/60Hz,3Φ	H
460V,60Hz,3Φ	J

(7) VERSION	
1~9	KOREAN
A~Z	EXPORT
Z	The Z version is a high-efficiency EEV Mode indoor unit.

8-2 Refrigerating Cycle Diagram



● Condenser

Gas refrigerant discharged from the compressor is cooled down in the condenser of the outdoor unit by means of thermal emission and turned into a liquid refrigerant before being sent to the evaporator.

● Compressor

It compresses the low-temperature, low-pressure refrigerant to let it flow to the Cycle.

● Evaporator

As the liquid refrigerant that has been absorbed via capillary tubes evaporates (from liquid to gas), it absorbs heat from the surroundings, thereby cooling the indoor area.

● Service Valve

Using a hex wrench, turn the needle valve counterclockwise to open the valve. It is used for vacuuming, gas drain, refrigerant injection, refrigerant purge, and indoor-outdoor units connection.

● Accumulator

It prevents liquid refrigerant from flowing into the compressor.
(If liquid refrigerant enters the compressor, it becomes overloaded)

**GSPN(Global Service Partner Network)**

Area	Web Site
Europe	http://gspn1.samsungcsportal.com
CIS	http://gspn1.samsungcsportal.com
Mideast & Africa	http://gspn1.samsungcsportal.com
Asia	http://gspn2.samsungcsportal.com
North America	http://gspn3.samsungcsportal.com
Latin America	http://gspn3.samsungcsportal.com
China	http://china.samsungportal.com

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